Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Civil Engineering
(Even Semester 2020-21)

Execution Plan

Name of Faculty: Prof. S.A.Baitule **Subject Code:** **Section: A**

Subject Name: Dam Engineering **Semester: VIII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	18/1/2021	Unit 1: Introduction to dam engineering
2	19/1/2021	types of dam
3	21/1/2021	Types of dam
4	22/1/2021	Investigation of dam site
5	25/1/2021	Engineering Surveys
6	28/1/2021	Geological Investigation
7	29/1/2021	Subsurface Exploration program
8	02/01/2021	Direct methods
9	26/2/2021	Indirect methods
10	25/2/2021	Economical height of dam
11	01/03/2021	Construction machinery
12	02/03/2021	Unit 2 : Introduction to rockfill dam
13	04/03/2021	General characteristics of rockfill dam

14	05/03/2021	General Characteristic
15	08/03/2021	materials and testing of rockfill material
16	09/03/2021	Materials and testing of rockfill material
17	12/03/2021	Foundation of rockfill dam, design
18	5/3/2021	Unit 3 : Arch dam : introduction, components
19	16/3/2021	components of arch dam
20	18/03/2021	Types of arch dam
21	19/03/2021	methods for design
22	22/03/2021	Buttress dam : components, types
23	23/03/2021	forces acting on buttress dam, buttress spacing
24	25/03/2021	Master curve for economical spacing, Preliminary design
25	26/03/2021	Solid gravity dam : analysis & design of gravity dam
26	1/04/2021	Unit 4 : Spillways: Choice of types
27	05/04/2021	Types and forces acting
28	06/04/2021	types of gates
29	08/04/2021	Unit 5: Head Regulators : requirements, types, foundation treatment including uplift consideration, Bank connection,

30	09/04/2021	Hydraulic design of opening and barrel, ventilation,.
31	12/04/2021	Unit 6 : Instrumentation : In earth dam and solid gravity dams, piezo meters, settlement, gauges
32	15/04/2021	strain meters joint meters, thermometers, stress meters, pore pressure cells, plumb-bob Seismograph. Water level gauges

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Execution Plan

Name of Faculty: Prof. R. S. Adhau **Subject Code: 7CE04** **Section: B**

Subject Name: Environmental Engineering –I **Semester: VII** **Year: Final Year**

Sr .No	Date	Topics Covered
1	17/8/2020	Design Period & Factors affecting it.
2	18/8/2020	Population Forecasting, Arithmetic method ,Geometric Increase Method
3	21/8/2020	Numerical On population Forecasting
4	24/8/2020	Sources: Surface Source & Ground Water sources
5	25/8/2020	Water quality: Impurities in water, their effects and significance
6	27/8/2020	Collection of water samples. Water analysis physical
7	28/8/2020	chemical and bacteriological water analysis
8	3/9/2020	Water Quality , Impurities in water
9	4/9/2020	Effects & Significance of water borne diseases
10	7/9/2020	Water Quality Std. WHO & IS for drinking water, Water analysis
11	8/9/2020	Flow Diagram Of WTP action of water samples. Water analysis physical
12	10/9/2020	Aeration , Types of aeration

13	11/9/2020	Trickling Bed Aeration, Sedimentation tank
14	14/9/2020	Sedimentation Tank - Circular Sedimentation tank
15	15/9/2020	Up & Down Baffle Tank (Plain Sedimentation tank)
16	17/9/2020	Sedimentation With Coagulation, Jar Test, Wet Feeding Devices
17	18/9/2020	Design Of sedimentation Tank,Problems On Sedimentation tank
18	21/9/2020	Mixing Devices: 1) Flash Mixer,Mixing Devices 2) Baffle wall mixing
19	22/9/2020	Expression for Settling velocity particles.
20	24/9/2020	Filtration , Theory of Filtration
21	25/9/2020	Rapid Sand filter . comparison between slow sand & rapid sand
22	28/9/2020	Pressure Filter. problem on slow sand
23	29/9/2020	Other types of filters..1)roughing & double filtration 2)Up flow filt
24	1/10/2020	Disinfection Introduction
25	5/10/2020	Methods of Disinfection
26	6/10/2020	Behavior of chlorine & types of chlorine
27	15/10/2020	Introduction to tertiary treatments like Softening
28	16/10/2020	Ion Exchange, Reverse Osmosis, Defloridation, Desalination

29	19/10/2020	Distribution system requirement , water supply system & layout of dist
30	20/10/2020	Pumping and combinedgravity and pumping
31	22/10/2020	Dead end, Grid iron, Circular system and Radial system
32	24/10/2020	Equalising storage, Type of storage reservoirs, capacity

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Department of Computer Science & Engineering
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Execution Plan

Name of Faculty: Prof. P.S.Deshmukh **Subject Code: 8CE01** **Section: C**

Subject Name: WRE 2 **Semester: VIII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	18/01/2021	**Unit 1:** Reservoir Planning
2	21/01/2021	Control levels, Reservoir Sedimentation
3	22/01/2021	Reservoir Capacity, Calculation of life Reservoir.
4	25/01/2021	Types of Dam, Types of Earthen Dam
5	28/01/2021	causes of failure seepage and drainage arrangement
6	29/01/2021	Phreatic line, Stability Analysis, Seepage Control Measures
7	1/02/2021	**Unit 2:** Gravity Dams: Types of dams forces acting
8	4/02/2021	Modes of failure; principles of design of straight gravity dams
9	5/02/2021	Principles of design of straight gravity dams
10	8/02/2021	Elementary and practical profile of gravity dam.
11	11/02/2021	Galleries, Earthquake and its effect on dams.
12	12/02/2021	**Unit 3:** Selection of site and layout of Diversion Head Work
13	15/02/2021	Components of diversion head works
14	18/02/2021	Design of weirs on permeable foundation
15	19/02/2021	Construction details of Kolhapur type weirs
16	22/02/2021	Spillways: Types of spillway, spillway capacity

17	25/02/2021	Flood routing through spillways, types of crest gates
18	1/03/2021	Energy dissipaters: meaning, objectives, location.
19	4/03/2021	Type's hydraulic jump, jet diffusion and Bucket type
20	8/03/2021	**Unit 4:** Canal irrigation: Type of canals, their parts and alignment
21	11/03/2021	Design of lined and unlined canal
22	12/03/2021	Balancing depth, cross section of canal.
23	15/03/2021	Propose and types of canal lining.
24	18/03/2021	**Unit 5:** Canal masonry work: Type and design principal
25	19/03/2021	Regulation work: Canal falls, head regulator, cross regulator,
26	22/03/2021	Canal escapes, outlets
27	25/03/2021	Cross drainage works: Aqueduct, Syphon, Supper passage.
28	26/03/2021	**Unit 6**: Well Irrigation: open and tube well
29	1/04/2021	Water Management and distribution
30	2/04/2021	Water Management and distribution
32	5/04/2021	Water shed management and their need.
33	8/04/2021	Importance of soil conservation measures
34	8/04/2021	Techniques ground water harvesting.
35	9/04/2021	River Training Works : Need and types of river training works.

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Execution Plan

Name of Faculty: Prof. R. S. Adhau **Subject Code: 8CE02** **Section: A**

Subject Name: Environmental Engineering –II **Semester: VII I** **Year: Final Year**

Sr. No	Date	Topics Covered
1	19/1/2021	Quantity of storm water, DWF, variation of sewage
2	20/1/2021	Flow systems of sewerage - separate combined and partially combined
3	27/1/2021	capacity of sewers, design of sewers
4	28/1/2021	Laying out of circular sewers-Boning rod and sight railmethod,
5	24/2/2021	Testing & maintenance of sewers
6	2/3/2021	Waste water characteristic, sampling of sewage, physical chemical
7	3/3/2021	B.O.D. and C.O.D.,B.O.D. equation, problems on B.O.D.Population
8	8/3/2021	pollution due to domestic and industrial waste. Industrial effluent
9	9/3/2021	Treatment of sewage - purpose of treatment, preliminarytreatment,
10	10/3/2021	construction details, Re- circulation,
11	15/3/2021	Flow diagram for conventional sewage treatment plant.
12	16/3/2021	Preliminary Treatment:- Screening, Grit chamber, detritus tank
13	12/4/2021	Different modified forms of A.S.P.
14	19/4/2021	Primary Treatment:- Sedimentation of sewage
15	20/4/2021	Biological treatment: Trickling filters, low rate & high ratetrickin

16	21/4/2021	Activated sludge process - Process description, Methods of aeration,
17	28/4/2021	MLSS & SVI,F/M.
18	3/5/2021	Low cost waste treatments - Oxidation ponds, AeratedLagoon,
19	4/5/2021	Treatment and Disposal of sludge –
20	5/5/2021	Digestion of sludge, sludge disposal.
21	6/5/2021	Septic tank, working and design, Disposal of septic tankeffluent
22	12/5/2021	Disposal of sewage on land and in stream. Industrial effluent standard
23	17/5/2021	MINAS. Self purification capacity of stream
24	24/5/2021	Characteristics of solid waste:- Physical, chemical, biologicalAnaly
25	25/5/2021	Types of collection system andservices
26	3/5/2021	Disposal of solid wastes:- Different methods
27	5/5/2021	sanitary land fill, composting, incineration.
28	7/5/2021	Introduction TO Air Pollution
29	10/5/2021	various pollutants, their sources and their effects on man and materia
30	12/5/2021	prevention or air pollution at sources, introduction to control device
31	15/5/2021	Electrostatic precipitator & cyclones only.
32	17/5/2021	Introduction to EIA, Environmental Acts
33	19/5/2021	Environmental Audit and objectives
34	22/5/2021	air pollution

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Execution Plan

Name of Faculty: Prof. H. P. Nistane **Subject Code: 8 CE04** **Section: B**

Subject Name: AWW&IWWT **Semester: VIII** **Year: Final Year (B)**

Sr. No	Date	Topics Covered
1	19/01/2021	Physical unit process: screening, mixing,
2	20/01/2021	Flocculation, sedimentation, floatation.
3	21/01/2021	Design of Grit Chambers
4	27/01/2021	Screens Chamber
5	28/01/2021	Chemical Unit Processes: precipitation Gas transfer, Adsorption
6	29/01/2021	Unit 02 - Biological Unit Process
7	24/02/2021	Fundamentals of biological treatment.
8	25/01/2021	Design of trickling filter
9	26/02/2021	Activated sludge process.
10	03/03/2021	Unit 03 - Low cost waste water treatment
11	04/03/2021	Design of oxidation pond and aerated lagoon.
12	05/03/2021	Oxidation ditch. Design of Secondary Settling
13	09/03/2021	Methods of disposal of industrial wastes.
14	10/03/2021	Equalization tank, Neutralization.

15	16/03/2021	Unit 04 General : Effect of discharge of industrial wastewaters on streams, land and environment. Importance and scope.
16	08/04/2021	Problems involved in treatment. Variation in quality and quantity of industrial wastewaters.
17	20/04/2021	Indian standards for discharge of treated waste water on land, into municipal sewers and natural
18	21/04/2021	Sampling of Waste Water : Representative sampling. Grab and composite samples.
19	22/04/2021	Unit 05 General Approaches to Planning of Industrial Wastewater Treatment and disposal.
20	28/04/2021	Equalization and proportioning
21	30/04/2021	Treating different effluent streams separately. Including/ excluding domestic wastewater along
22	04/05/2021	Treating industrial wastewater along with town waste.
23	06/05/2021	Unit 06 -Process flow diagram, characteristics and treatment of various industrial wastes.
24	07/05/2021	Industrial wastes of pulp and paper
25	11/05/2021	Textiles, tannery, food, canning, sugar mills,
26	18/05/2021	Dairy, Pharmaceutical, Electroplating etc. Case

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Execution Plan

Name of Faculty: Prof. R. S. Adhau **Subject Code: 8CE02** **Section: A**

Subject Name: Environmental Engineering –II **Semester: VII I** **Year: Final Year**

Sr. No	Date	Topics Covered
1	19/1/2021	Quantity of storm water, DWF, variation of sewage
2	20/1/2021	Flow systems of sewerage - separate combined and partially combined
3	27/1/2021	capacity of sewers, design of sewers
4	28/1/2021	Laying out of circular sewers-Boning rod and sight railmethod,
5	24/2/2021	Testing & maintenance of sewers
6	2/3/2021	Waste water characteristic, sampling of sewage, physical chemical
7	3/3/2021	B.O.D. and C.O.D.,B.O.D. equation, problems on B.O.D.Population
8	8/3/2021	pollution due to domestic and industrial waste. Industrial effluent
9	9/3/2021	Treatment of sewage - purpose of treatment, preliminarytreatment,
10	10/3/2021	construction details, Re- circulation,
11	15/3/2021	Flow diagram for conventional sewage treatment plant.
12	16/3/2021	Preliminary Treatment:- Screening, Grit chamber, detritus tank
13	12/4/2021	Different modified forms of A.S.P.
14	19/4/2021	Primary Treatment:- Sedimentation of sewage
15	20/4/2021	Biological treatment: Trickling filters, low rate & high ratetrickin

16	21/4/2021	Activated sludge process - Process description, Methods of aeration,
17	28/4/2021	MLSS & SVI,F/M.
18	3/5/2021	Low cost waste treatments - Oxidation ponds, AeratedLagoon,
19	4/5/2021	Treatment and Disposal of sludge –
20	5/5/2021	Digestion of sludge, sludge disposal.
21	6/5/2021	Septic tank, working and design, Disposal of septic tankeffluent
22	12/5/2021	Disposal of sewage on land and in stream. Industrial effluent standard
23	17/5/2021	MINAS. Self purification capacity of stream
24	24/5/2021	Characteristics of solid waste:- Physical, chemical, biologicalAnaly
25	25/5/2021	Types of collection system andservices
26	3/5/2021	Disposal of solid wastes:- Different methods
27	5/5/2021	sanitary land fill, composting, incineration.
28	7/5/2021	Introduction TO Air Pollution
29	10/5/2021	various pollutants, their sources and their effects on man and materia
30	12/5/2021	prevention or air pollution at sources, introduction to control device
31	15/5/2021	Electrostatic precipitator & cyclones only.
32	17/5/2021	Introduction to EIA, Environmental Acts
33	19/5/2021	Environmental Audit and objectives
34	22/5/2021	air pollution

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Execution Plan

Name of Faculty: Prof. H. P. Nistane **Subject Code: 8 CE04** **Section: B**

Subject Name: AWW&IWWT **Semester: VIII** **Year: Final Year (B)**

Sr. No	Date	Topics Covered
1	19/01/2021	Physical unit process: screening, mixing,
2	20/01/2021	Flocculation, sedimentation, floatation.
3	21/01/2021	Design of Grit Chambers
4	27/01/2021	Screens Chamber
5	28/01/2021	Chemical Unit Processes: precipitation Gas transfer, Adsorption
6	29/01/2021	Unit 02 - Biological Unit Process
7	24/02/2021	Fundamentals of biological treatment.
8	25/01/2021	Design of trickling filter
9	26/02/2021	Activated sludge process.
10	03/03/2021	Unit 03 - Low cost waste water treatment
11	04/03/2021	Design of oxidation pond and aerated lagoon.
12	05/03/2021	Oxidation ditch. Design of Secondary Settling Tank.
13	09/03/2021	Methods of disposal of industrial wastes.
14	10/03/2021	Equalization tank, Neutralization.

15	16/03/2021	Unit 04 General : Effect of discharge of industrial wastewaters on streams, land and environment. Importance and scope.
16	08/04/2021	Problems involved in treatment. Variation in quality and quantity of industrial wastewaters. Standards & Criteria
17	20/04/2021	Indian standards for discharge of treated waste water on land, into municipal sewers and natural water courses.
18	21/04/2021	Sampling of Waste Water : Representative sampling. Grab and composite samples.
19	22/04/2021	Unit 05 General Approaches to Planning of Industrial Wastewater Treatment and disposal.
20	28/04/2021	Equalization and proportioning
21	30/04/2021	Treating different effluent streams separately. Including/ excluding domestic wastewater along wish the industrial waste.
22	04/05/2021	Treating industrial wastewater along with town waste.
23	06/05/2021	Unit 06 -Process flow diagram, characteristics and treatment of various industrial wastes.
24	07/05/2021	Industrial wastes of pulp and paper
25	11/05/2021	Textiles, tannery, food, canning, sugar mills, distillery
26	18/05/2021	Dairy, Pharmaceutical, Electroplating etc. Case study of any

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Execution Plan

Name of Faculty: Prof. R. V. Langote Subject Code: 4CE04 (CBCS) Section: A
Subject Name: Geotechnical Engineering – I Semester: IV Year: Second Year

Sr. No.	Date	Topics Covered
1	01/02/2021	**Unit I:** History of development of soil mechanics, formation of soil, its significance to the field problems
2	06/02/2021	Soil properties and its classification
3	08/02/2021	Definition of soil, soil as a three phase system, weight – volume relationship
4	12/02/2021	Index properties of coarse and fine grained soil
5	20/02/2021	BIS classification of fine grained & coarse grained soil
6	22/02/2021	Numericals
7	26/02/2021	**Unit II:** Concept of clay mineral, major soil minerals, their structural formation and properties
8	27/02/2021	Mechanics of compaction, factors affecting compaction, different structures of soil
9	01/03/2021	Standard and modified Proctor test, their field Determination, zero air void line, concept of wet of optimum, and dry of optimum,
10	05/03/2021	Field compaction & their control. CBR test and CBR value for soak and unsoaked conditions.
11	06/03/2021	Numericals
12	08/03/2021	**Unit III:** Concept of absorbed water, surface tension
13	12/03/2021	Capillarity and its effect on Soil properties permeability of soil
14	13/03/2021	Darcy's law and validity, Discharge and seepage velocity, factors affecting Permeability
15	15/03/2021	Determination of coefficient of permeability laboratory and field methods.
16	19/03/2021	Numericals
17	20/03/2021	Permeability for stratified deposits.
18	22/03/2021	Drainage and dewatering of soil and its various methods.
19	26/03/2021	**Unit IV:** Laplace equation, its derivation in Cartesian co-ordinate system, its application for the computation of discharge seepage
20	03/04/2021	Seepage pressure, Quick sand condition with numericals
21	05/04/2021	Concepts flow net, method to draw flow nets, characteristics and use of flow net
22	10/04/2021	Preliminary problem of discharge, estimation of

		discharge through homogenous earthen embankment
23	12/04/2021	Numericals
24	16/04/2021	concept of effective neutral and total stress in soil mass, method of arresting seepage
25	17/04/2021	Design Terzaghi's criteria for graded filter, concept of piping and criteria of stability against piping
26	19/04/2021	**Unit V:** A physical concept of shear strength, Introduction of Mohr's stress diagram
27	20/04/2021	Mohr's failure criteria, Mohr-Coulomb's theory and development of failure envelopes
28	23/04/2021	Unconfined compression test, Laboratory measurement of shear strength for different drainage, conditions by direct shear test
29	24/04/2021	Triaxial test for various drainage conditions Merits and demerits of various shear strength tests.
30	25/05/2021	Concept of pore pressure coefficient shear characteristics of sand, NC and OC clays and partially saturated soil
31	31/05/2021	Influence of soil structure and strain rate on shear strength
32	04/06/2021	**Unit VI:** State of stress at a point, stress distribution in soil mass
33	07/06/2021	Boussinesq's theory and its applications, point load, uniformly loaded rectangular and circular area
34	09/06/2021	New-mark's chart, its preparation and use, equivalent point load Compression of laterally confined soil, concept of consolidation spring analogy
35	09/060/2021	Terzaghi's theory of one dimensional consolidation
36	11/06/2021	e-p curve, compression index, swelling index, coefficient of compressibility, Consoledometer-test
37	12/06/2021	Determination of Cv Cassagrande's method for determination of pre-consolidation pressure.
38	12/06/2021	Numericals

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Execution Plan

Name of Faculty: Prof. P. V. Kolhe **Subject Code: 4CE04 (CBCS)** **Section: C**

Subject Name: Geotechnical Engineering – I **Semester: IV** **Year: Final Year**

Sr. No.	Date	Topics Covered
1	20/01/2021	**Unit I:** History of development of soil mechanics, formation of soil, its significance to the field problems
2	21/01/2021	Soil properties and its classification
3	22/01/2021	Definition of soil, soil as a three phase system, weight – volume relationship
4	27/01/2021	Index properties of coarse and fine grained soil
5	28/01/2021	BIS classification of fine grained & coarse grained soil
6	29/01/2021	Numericals
7	03/02/2021	Numericals
8	04/02/2021	**Unit II:** Concept of clay mineral, major soil minerals, their structural formation and properties
9	05/02/2021	Mechanics of compaction, factors affecting compaction, different structures of soil
10	10/02/2021	Standard and modified Proctor test, their field Determination, zero air void line, concept of wet of optimum, and dry of optimum,
11	11/02/2021	Field compaction & their control. CBR test and CBR value for soak and unsoaked conditions.
12	12/02/2021	Numericals
13	17/02/2021	Numericals
14	18/02/2021	**Unit III:** Concept of absorbed water, surface tension
15	24/02/2021	Capillarity and its effect on Soil properties permeability of soil
16	25/02/2021	Darcy's law and validity, Discharge and seepage velocity, factors affecting Permeability
17	26/02/2021	Determination of coefficient of permeability laboratory and field methods.
18	03/03/2021	Numericals
19	04/03/2021	Permeability for stratified deposits
20	05/03/2021	Drainage and dewatering of soil and its various methods.
21	10/03/2021	Numericals

22	12/03/2021	**Unit IV:** Laplace equation, its derivation in Cartesian co-ordinate system, its application for the computation of discharge seepage
23	17/03/2021	Seepage pressure, Quick sand condition with numericals
24	18/03/2021	Concepts flow net, method to draw flow nets, characteristics and use of flow net
25	19/03/2021	Preliminary problem of discharge, estimation of discharge through homogenous earthen embankment
26	24/03/2021	Numericals
27	25/03/2021	Concept of effective neutral and total stress in soil mass, method of arresting seepage
28	26/03/2021	Design Terzaghi's criteria for graded filter, concept of piping and criteria of stability against piping
29	31/03/2021	Numericals
30	01/04/2021	**Unit V:** A physical concept of shear strength, Introduction of Mohr's stress diagram
31	07/04/2021	Mohr's failure criteria, Mohr-Coulomb's theory and development of failure envelopes
32	08/04/2021	Unconfined compression test, Laboratory measurement of shear strength for different drainage, conditions by direct shear test
33	09/04/2021	Triaxial test for various drainage conditions Merits and demerits of various shear strength tests.
34	15/04/2021	Concept of pore pressure coefficient shear characteristics of sand, NC and OC clays and partially saturated soil
35	16/04/2021	Influence of soil structure and strain rate on shear strength
36	22/04/2021	Numericals
37	23/04/2021	**Unit VI:** State of stress at a point, stress distribution in soil mass
38	29/04/2021	Boussinesq's theory and its applications, point load, uniformly loaded rectangular and circular area
39	30/04/2021	New-mark's chart, its preparation and use, equivalent point load Compression of laterally confined soil, concept of consolidation spring analogy
40	05/05/2021	Terzaghi's theory of one dimensional consolidation
41	06/05/2021	e-p curve, compression index, swelling index, coefficient of compressibility, Consoledometer-test
42	07/05/2021	Determination of Cv Cassagrande's method for determination of pre-consolidation pressure.

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Execution Plan

Name of Faculty: Prof. M. Shahezad **Subject Code: 4CE05** **Section: A**
Subject Name: STRUCTURAL ANALYSIS-I **Semester: VI** **Year: SECOND Year**

Sr.No	Date	Topics Covered
1	19.01.20	**UNIT 1:** Classification of Structures
2	20.01.20	Concept of statically indeterminate beam and frame
3	21.01.20	1.Analysis of fixed beam
4	22.01.20	2.Analysis of fixed beam
5	23.01.20	3.Analysis of fixed beam
6	26.01.20	4.Analysis of fixed beam
7	27.01.20	Analysis of propped cantilever
8	28.01.20	1.Analysis of fixed beam with sinking of support
9	29.01.20	2.Analysis of fixed beam with sinking of support
10	30.01.20	3.Analysis of fixed beam with sinking of support-3
11	02.02.20	**UNIT 5:** 1. Analysis of continuous beams without sinking of support
12	03.02.20	2. Analysis of continuous beams without sinking of support
13	04.02.20	3. Analysis of continuous beams without sinking of support
14	05.02.20	4. Analysis of continuous beams with sinking of support
15	06.02.20	5. Analysis of continuous beams with sinking of support
16	09.02.20	6. Analysis of continuous beams with sinking of support

	17	10.02.20	7. Analysis of portal frames without side sway
	18	11.02.20	8. Analysis of portal frames without side sway
	19	12.02.20	9. Analysis of portal frames without side sway
	20	13.02.20	10. Analysis of portal frames without side sway
	21	16.02.20	**UNIT 6:** 1. Analysis of continuous beams without sinking of support
	22	17.02.20	2. Analysis of continuous beams without sinking of support
	23	18.02.20	3. Analysis of continuous beams without sinking of support
	24	19.02.20	4. Analysis of continuous beams with sinking of support
	25	20.02.20	5. Analysis of continuous beams with sinking of support
	26	23.02.20	6. Analysis of continuous beams with sinking of support
	27	24.02.20	7. Analysis of portal frames without side sway
	28	25.02.20	8. Analysis of portal frames without side sway
	29	26.02.20	9. Analysis of portal frames without side sway
	30	27.02.20	10. Analysis of portal frames without side sway
	31	02.03.20	**UNIT 2:** 1.Castigliano's theorem I, Unit load method
	32	03.03.20	2.Castigliano's theorem I, Unit load method
	33	04.03.20	3. Slope and deflection in determinate beams and portals.
	34	05.03.20	4. Slope and deflection in determinate beams and portals.
	35	06.03.20	5. Slope and deflection in determinate beams and portals.
	36	09.03.20	6. Slope and deflection in determinate beams and portals.
	37	10.03.20	7. Slope and deflection in determinate beams and portals.

	38	11.03.20	8.slope and deflection in determinate beams and portals.
	39	12.03.20	9. Deflection in determinate trusses
	40	13.03.20	10. Deflection in determinate trusses
	41	16.03.20	**UNIT 4:** 1.Three hinged arches subjected to static loads, Bending moment, radia
	42	17.03.20	2.Three hinged arches subjected to static loads, Bending moment, radia
	43	18.03.20	3.Three hinged arches subjected to static loads, Bending moment, radia
	44	19.03.20	4.Three hinged arches subjected to static loads, Bending moment, radia
	45	20.03.20	5.Three hinged arches subjected to static loads, Bending moment, radia
	46	23.03.20	1.Rolling loads on trusses, Influence line diagrams for forces in memb
	47	24.03.20	2.Rolling loads on trusses, Influence line diagrams for forces in memb
	48	25.03.20	3.Rolling loads on trusses, Influence line diagrams for forces in memb
	49	26.03.20	**UNIT 3:** 1. Influence line diagrams for reactions
	50	27.03.20	2. bending moment and shear force for determinate beams
	51	30.03.20	3. bending moment and shear force for determinate beams
	52	31.03.20	4. bending moment and shear force for determinate beams
	53	01.04.20	5. bending moment and shear force for determinate beams
	54	02.04.20	6. bending moment and shear force for determinate beams
	55	03.04.20	7. maximum shear force and bending moment, focal length.

	56	06.04.20	8. maximum shear force and bending moment, focal length.
	58	07.04.20	9. maximum shear force and bending moment, focal length.
	59	08.04.20	10. maximum shear force and bending moment, focal length.
	60	09.04.20	11. maximum shear force and bending moment, focal length.

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Execution Plan

Name of Faculty: Dr. N. P. Kataria Subject Code: 4CE05 Section: B
Subject Name: Structural Analysis - I Semester: IV Year: Second Year

Sr. No	Date	Topics Covered
1	2-Feb-21	**Unit 1:** Introduction to SA I, Basics of Structural Analysis
2	3-Feb-21	Introduction to Fixed Beam
3	4-Feb-21	Advantage Disadvantage of Fixed beam
4	5-Feb-21	Basic Procedure for Analysis of Fixed Beam
5	12-Feb-21	Analysis of Standard Cases
6	16-Feb-21	Fixed Beam Problem 1
7	17-Feb-21	Fixed Beam Problem 2
8	18-Feb-21	Fixed Beam Problem 3
9	20-Feb-21	Introduction to Continuous Beam
10	23-Feb-21	Three moment theorem
11	24-Feb-21	Problem 1
12	25-Feb-21	Problem 2
13	26-Feb-21	Problem 3
14	1-Mar-21	**Unit 2:** Introduction to Slope Deflection Method

15	2-Mar-21	Analysis of continuous beam using SDE
16	3-Mar-21	Analysis of continuous beam using SDE with sinking
17	4-Mar-21	Analysis of continuous overhang beam using SDE
18	5-Mar-21	Analysis of Portal Frame using SDE
19	9-Mar-21	Analysis of Portal Frame 2 using SDE
20	10-Mar-21	Analysis of Portal Frame 3 using SDE
21	12-Mar-21	**Unit 3:** Introduction to MDM
22	16-Mar-21	Analysis of continuous beam using MDM
23	17-Mar-21	Analysis of continuous beam 2 using MDM
24	18-Mar-21	Analysis of continuous beam 3 using MDM
25	19-Mar-21	Analysis of Portal frame using MDM
26	23-Mar-21	Analysis of Portal frame using MDM
27	24-Mar-21	Analysis of Portal frame using MDM
28	25-Mar-21	**Unit 4:** Influence Line Diagram
29	26-Mar-21	ILD for SS beam
30	30-Mar-21	Maximum SF
31	31-Mar-21	Maximum BM
32	1-Apr-21	ILD for Overhanging Beam

33	6-Apr-21	Maximum BM under Chosen Load
34	8-Apr-21	Absolute Maximum BM
35	9-Apr-21	Absolute Maximum BM Problems
36	15-Apr-21	ILD Exam Problem
37	16-Apr-21	**Unit 5:** Analysis of Cables Suspension Bridge under Concentrated Load for Cables over pulleys and Cable provided with saddles.
38	23-Apr-21	Analysis of Cables Suspension Bridge under Concentrated Load for Cables over pulleys.
39	25-May-21	Analysis of Cables Suspension Bridge under UDL for Cables over pulleys and Cable provided with saddles.
40	27-May-21	Analysis of Cables Suspension Bridge under UDL for Cables over pulleys.
41	28-May-21	Introduction to Arch
42	2-Jun-21	Analysis of Arch, NT, RS
43	3-Jun-21	Arch Problem 1
44	4-Jun-21	Arch Problem 2
45	8-Jun-21	Arch Problem 3
46	9-Jun-21	**Unit 6:** Strain Energy, Castiglaino's first theorem
47	10-Jun-21	Analysis of frames using strain energy concept
48	11-Jun-21	Analysis of Truss using Castiglaino's first theorem
49	18-Jun-21	Analysis of Truss using Castiglaino's first theorem

50	25-Jun-21	Practice Problems for Exam
51	26-Jun-21	Practice Problems for Exam

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Execution Plan

Name of Faculty: Prof. N.W.Chorey **Subject Code: 4CE03** **Section: A**
Subject Name: Surveying **Semester: IV** **Year: Second Year**

Sr.No	Date	Topics Covered
1	04/02/2021	Geo-informatics- definition, disciplines covered, importance
2	08/02/2021	Field Surveying- definition & objectives; concept of Geoids and reference spheroids, coordinate systems, plane and geodetic survey
3	10/2/2021	Methods of location of a point-classification of surveys
4	11/02/2021	Principles of surveying Errors in measurements- sources, types of errors and their treatment. Random error distribution accuracy, precision and uncertainty.
5	15/02/2021	Surveying instruments temporary and permanent adjustment concept, principle of reversal.
6	17/02/2021	Maps- types, importance, scales/CI, conventional symbols, and generalization
7	18/02/2021	Topographic maps projection systems
8	22/02/2021	Sheet numbering systems, map layout.
9	24/02/2021	Linear measurements: Direct and indirect methods
10	25/02/2021	Corrections to tape measurements
11	1/03/2021	Numerical on linear measurement
12	3/03/2021	Optical methods- tachometers sub tense bar
13	4/03/2021	Electronic methods- EDMs, total stations

14	08/03/2021	Methods of height determination
15	10/03/2021	Spirit leveling different, types of levels and staves
16	15/03/2021	Booking and reduction of data, classification and permissible closing error
17	17/03/2021	Profile leveling and cross sectioning
18	18/03/2021	Curvature & refraction and collimation errors
19	23/03/2021	Reciprocal leveling
20	24/03/2021	Contours characteristics, uses and methods of contouring.
21	25/03/2021	Measurement of directions: bearings and angles
22	31/03/2021	Compass surveying- magnetic bearings
23	01/04/2021	Compass surveying- magnetic bearings
24	05/04/2021	Local attraction errors and adjustments.
25	07/04/2021	Local attraction errors and adjustments.
26	08/04/2021	Local attraction errors and adjustments.
27	12/04/2021	Traversing: Purpose and classification of each
28	19/04/2021	Compass and theodolite traverses
29	22/04/2021	Theodolites- different types,
30	26/04/2021	Uses, methods of observation and booking of data
31	28/04/2021	Balancing of traverses, computation of coordinates

32	29/04/2021	Gale’s traverse table.
33	03/05/2021	Plane tabling
34	05/05/2021	Merits and demerits
35	06/05/2021	Orientation and resection
36	10/05/2021	Methods of plane tabling; three point problem and solutions
37	12/05/2021	Errors in plane tabling
38	13/04/2021	Engineering project surveys requirements and specifications, various stages of survey.

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Execution Plan

Name of Faculty: Prof. P. A. Kadu **Subject Code: 4CE03** **Section: C**
Subject Name: SURVEYING **Semester: IV** **Year: Second Year**

Sr. No	Date	Topics Covered
1	18/01/2021	Geo-informatics- definition, disciplines covered, importance
2	19/01/2021	Field Surveying- definition & objectives; concept of Geoids and reference spheroids, coordinate systems, plane and geodetic survey
3	20/01/2021	Methods of location of a point-classification of surveys
4	25/01/2021	Principles of surveying Errors in measurements- sources, types of errors and their treatment. Random error distribution accuracy, precision and uncertainty.
5	27/01/2021	Surveying instruments temporary and permanent adjustment concept, principle of reversal.
6	01/02/2021	Maps- types, importance, scales/CI, conventional symbols, and generalization
7	02/02/2021	Topographic maps projection systems
8	03/02/2021	Sheet numbering systems, map layout.
9	08/02/2021	Linear measurements: Direct and indirect methods
10	09/02/2021	Corrections to tape measurements
11	10/02/2021	Numerical on linear measurement
12	15/02/2021	Optical methods- tachometers sub tense bar
13	16/02/2021	Electronic methods- EDMs, total stations
14	17/02/2021	Methods of height determination

15	22/02/2021	Spirit leveling different, types of levels and staves
16	23/02/2021	Booking and reduction of data, classification and permissible closing error
17	24/02/2021	Profile leveling and cross sectioning
18	01/03/2021	Curvature & refraction and collimation errors
19	02/03/2021	Reciprocal leveling
20	03/03/2021	Contours characteristics, uses and methods of contouring.
21	08/03/2021	Measurement of directions: bearings and angles
22	09/03/2021	Compass surveying- magnetic bearings
23	10/03/2021	Compass surveying- magnetic bearings
24	15/03/2021	Local attraction errors and adjustments.
25	16/03/2021	Local attraction errors and adjustments.
26	17/03/2021	Local attraction errors and adjustments.
27	22/03/2021	Traversing: Purpose and classification of each
28	23/03/2021	Compass and theodolite traverses
29	24/03/2021	Theodolites- different types
30	30/03/2021	Uses, methods of observation and booking of data
31	05/04/2021	Balancing of traverses, computation of coordinates
32	06/04/2021	Gale’s traverse table.
33	07/04/2021	Plane tabling

34	12/04/2021	Merits and demerits
35	13/04/2021	Orientation and resection
36	14/04/2021	Methods of plane tabling; three point problem and solutions
37	19/04/2021	Errors in plane tabling
38	20/04/2021	Engineering project surveys requirements and specifications, various stages of survey.

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Execution Plan

Name of Faculty: Prof. S. D. Malkhede **Subject Code: 4CE03** **Section: B**
Subject Name: SURVEYING **Semester: IV** **Year: Second Year**

Sr No	Date	Topics Covered
1	18/01/2021	Geo-informatics- definition, disciplines covered, importance
2	20/01/2021	Field Surveying- definition & objectives; concept of Geoids and reference spheroids, coordinate systems, plane and geodetic survey
3	21/01/2021	Methods of location of a point-classification of surveys
4	25/01/2021	Principles of surveying Errors in measurements- sources, types of errors and their treatment. Random error distribution accuracy, precision and uncertainty.
5	27/01/2021	Surveying instruments temporary and permanent adjustment concept, principle of reversal.
6	28/01/2021	Maps- types, importance, scales/CI, conventional symbols, and generalization
7	01/02/2021	Topographic maps projection systems
8	03/02/2021	Sheet numbering systems, map layout.
9	04/02/2021	Linear measurements: Direct and indirect methods
10	08/02/2021	Corrections to tape measurements
11	10/02/2021	Numerical on linear measurement
12	11/02/2021	Optical methods- tachometers sub tense bar
13	15/02/2021	Electronic methods- EDMs, total stations
14	17/02/2021	Methods of height determination

15	18/02/2021	Spirit leveling different, types of levels and staves
16	22/02/2021	Booking and reduction of data, classification and permissible closing error
17	24/02/2021	Profile leveling and cross sectioning
18	25/02/2021	Curvature & refraction and collimation errors
19	01/03/2021	Reciprocal leveling
20	03/03/2021	Contours characteristics, uses and methods of contouring.
21	04/03/2021	Measurement of directions: bearings and angles
22	08/03/2021	Compass surveying- magnetic bearings
23	10/03/2021	Compass surveying- magnetic bearings
24	15/03/2021	Local attraction errors and adjustments.
25	17/03/2021	Local attraction errors and adjustments.
26	18/03/2021	Local attraction errors and adjustments.
27	22/03/2021	Traversing: Purpose and classification of each
28	24/03/2021	Compass and theodolite traverses
29	25/03/2021	Theodolites- different, types,
30	01/04/2021	Uses, methods of observation and booking of data
31	05/04/2021	Balancing of traverses, computation of coordinates
32	07/04/2021	Gale’s traverse table.
33	08/04/2021	Plane tabling

34	12/04/2021	Merits and demerits
35	15/04/2021	Orientation and resection
36	19/04/2021	Methods of plane tabling; three point problem and solutions
37	03/05/2021	Errors in plane tabling
38	05/05/2021	Engineering project surveys requirements and specifications, various stages of survey.

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Execution Plan

Name of Faculty: Prof. N. R. Bobde **Subject Code: 4CE02** **Section: A**
Subject Name: Hydrology and Water Resources Engineering **Semester: IV** **Year: Second Year**

Sr .No	Date	Topics Covered
1	1/2/2021	Estimation of average raingauge stations, Problems on avg rainfall estimation
2	5/2/2021	Estimation of missing rainfall data, intensity frequency duration relation
3	6/2/2021	Yield of an open well, Recuperation test constant pumping level test
4	8/2/2021	Evaporation: Process, factors affecting, measurement and estimation
5	12/2/2021	Infiltration: Process, factors affecting, measurement, Infiltration
6	13/2/2021	Run-off: Factors affecting, estimation of runoff, Rainfall- Runoff coe
7	15/2/2021	Floods: Flood classification, importance, estimation of flood
	20/2/2021	Hydrographs: Typical flood hydrograph, base flow separation, unit hydro
9	20/2/2021	Problems on unit hydrograph problems on flood hydrograph problems
10	22/2/2021	Problems on flood hydrograph
11	26/2/2021	Problems on hydrograph using S-Curve method
12	27/2/2021	Introduction to irrigation engineering, defect or ill effect of irrigation, necessity & advantages of irrigation
13	1/3/2021	Properties of soil & types of soil,soil moisture classification
14	5/3/2021	Minor irrigation work, Bandhara irrigation work
15	6/3/2021	Percolation tank, flow & lift irrigation

16	8/3/2021	Crop water requirement , Relation between delta, duty & base period
17	12/3/2021	Gross command area, culturable command area & some other definitions Principal of crops, command area defination
18	13/3/2021	Problems on irrigation
19	15/3/2021	Consumptive Use of Water & its Estimation, problems
20	19/3/2021	Irrigation methods, surface irrigation methods
21	20/3/2021	Distribution system- Canal system, Alignment of canal
22	22/3/2021	Canal losses, Estimation of design discharge
23	26/3/2021	Design of channels - Kennedy's and Lacey's theory of Regim channel
24	27/3/2021	Canal outlets - Non modular, semi-modular and modular outlets
25	3/4/2021	Lining of canals, types of lining
26	5/4/2021	Water logging problems, Caauses, Effects
27	9/4/2021	Dams and spillways, Earthen dam, Classification and design consideration
28	10/4/2021	Selection of suitable sites, Estimation and control of seepage
29	12/4/2021	Gravity Dams - Forces on gravity dam, Causes of failure & Failure analysis
30	16/04/2021	Elementary and practical profile, Economic height of dam
31	17/04/2021	Spillway - Component of spillway, types of gates for spillway

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Execution Plan

Name of Faculty: Prof. R. S. Adhau **Subject Code: 4CE02** **Section: B**
Subject Name: Hydrology and Water Resources Engineering **Semester: IV** **Year: Second Year**

Sr .No	Date	Topics Covered
1	1/2/2021	Estimation of average raingauge stations, Problems on avg rainfall estimation
2	4/2/2021	Estimation of missing rainfall data, intensity frequency duration relation
3	6/2/2021	Yield of an open well, Recuperation test constant pumping level test
4	8/2/2021	Evaporation: Process, factors affecting, measurement and estimation
5	11/2/2021	Infiltration: Process, factors affecting, measurement, Infiltration
6	13/2/2021	Run-off: Factors affecting, estimation of runoff, Rainfall- Runoff coefficient.
7	15/2/2021	Floods: Flood classification, importance, estimation of flood,
	18/2/2021	Hydrographs: Typical flood hydrograph, base flow separation
9	20/2/2021	Problems on unit hydrograph problems on flood hydrograph problems
10	22/2/2021	Problems on flood hydrograph
11	25/2/2021	Problems on hydrograph using S-Curve method
12	27/2/2021	Introduction to irrigation engineering, defect or ill effect of irrigation,necessity & advantages of irrigation
13	1/3/2021	Properties of soil & types of soil,soil moisture classification
14	4/3/2021	Minor irrigation work, Bandhara irrigation work

15	6/3/2021	Percolation tank, flow & lift irrigation
16	8/3/2021	Crop water requirement , Relation between delta, duty & base period
17	11/3/2021	Gross command area, culturable command area & some other definitions, Principal of crops, command area definition
18	13/3/2021	Problems on irrigation
19	15/3/2021	Consumptive Use of Water & its Estimation, problems
20	18/3/2021	Irrigation methods, surface irrigation methods
21	20/3/2021	Distribution system- Canal system, Alignment of canal
22	25/3/2021	Canal losses, Estimation of design discharge
23	27/3/2021	Design of channels - Kennedy's and Lacey's theory of Regim channel
24	1/4/2021	Canal outlets - Non modular, semi-modular and modular outlets
25	3/4/2021	Lining of canals, types of lining,
26	5/4/2021	Water logging problems, Caauses, Effects
27	8/4/2021	Dams and spillways, Earthen dam, Classification and design consideration
28	10/4/2021	Selection of suitable sites, Estimation and control of seepage
29	17/4/2021	Gravity Dams - Forces on gravity dam, Causes of failure & Failure analysis
30	19/04/2021	Elementary and practical profile, Economic height of dam
31	22/04/2021	Spillway - Component of spillway, types of gates for spillway

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Department of Computer Science & Engineering

(Even Semester 2020-2021)

Execution Plan

Name of Faculty: Dr M V Mohod **Subject Code: 5CE01** **Section: B**

Subject Name: BPCAD **Semester: IV** **Year: Second Year**

Sr.No	Date	Topics Covered
1	18/01/2021	**Unit 1:** Introduction: Importance of building drawing for Civil Engineering.
2	21/01/2021	Method of drawing – Selection of scales for various drawings
3	27/01/2021	Abbreviations & graphical symbols used in Civil Engineering Drawing
4	29/01/2021	Combined first angle & third angle method of projection.
5	02/02/2021	Layout of sheet for civil engineering drawing,
6	03/02/2021	Requirements of drawing as per plan sanctioning authorities.
7	04/02/2021	**Unit 2:** Concept of line plan & working drawings of the building.
8	09/02/2021	Developing working drawings of the building from the given line plan
9	10/02/2021	Necessity and use of working drawing.
10	12/02/2021	Concept of site plan, block plan and layout plan. Importance and det
11	17/02/2021	Developing working drawing and foundation plan for load bearing
12	18/02/2021	**Unit 3:** Planning of residential building. Introduction, general principles.
13	23/02/2021	Planning of residential building. Introduction, general principles.

14	24/02/2021	Temperature Climate and design consideration. Orientation of buildings
15	26/02/2021	Requirement of the owner, alternatives of building types.
16	02/03/2021	Common utilities such as parking, security, water supply, sanitation
17	03/03/2021	Criteria for earthquake resistant planning of building.
18	04/03/2021	Criteria for earthquake resistant planning of building.
19	09/03/2021	**Unit 4:**Concept of line plan, working drawing and submission drawing.
20	10/03/2021	Concept of site plan, block plan and layout plan
21	11/03/2021	Concept of foundation plan and use.
22	16/03/2021	Types of public building and their requirements, planning of public.
23	17/03/2021	Preparing line plans of different public buildings suchas schools
24	18/03/2021	Free-hand sketch
25	23/03/2021	Developing working and submission drawing of load bearing and frame structural building.
26	24/03/2021	Developing working and submission drawing of load bearing and frame structural building.
27	25/03/2021	Developing working and submission drawing of load bearing and frame structural building.

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Department of Computer Science & Engineering
(Even Semester 2020-2021)
Execution Plan
Name of Faculty: Prof. P.S.Deshmukh Subject Code: 5CE01 Section: C
Subject Name: BPCAD Semester: IV Year: Second Year

Sr. No	Date	Topics Covered
1	19/01/2021	**Unit 1:** Introduction: Importance of building drawing for Civil Engineering.
2	21/01/2021	Method of drawing – Selection of scales for various drawings
3	27/01/2021	Abbreviations & graphical symbols used in Civil Engineering Drawing
4	28/01/2021	Combined first angle & third angle method of projection.
5	02/02/2021	Layout of sheet for civil engineering drawing,
6	03/02/2021	Requirements of drawing as per plan sanctioning authorities.
7	04/02/2021	**Unit 2:** Concept of line plan & working drawings of the building.
8	09/02/2021	Developing working drawings of the building from the given line plan
9	10/02/2021	Necessity and use of working drawing.
10	11/02/2021	Concept of site plan, block plan and layout plan. Importance
11	17/02/2021	Developing working drawing and foundation plan for load
12	18/02/2021	**Unit 3:** Planning of residential building. Introduction, general principles.
13	23/02/2021	Planning of residential building. Introduction, general principles.
14	24/02/2021	Temperature Climate and design consideration. Orientation of buildings

15	25/02/2021	Requirement of the owner, alternatives of building types.
16	02/03/2021	Common utilities such as parking, security, water supply, sanitation
17	03/03/2021	Criteria for earthquake resistant planning of building.
18	04/03/2021	Criteria for earthquake resistant planning of building.
19	09/03/2021	**Unit 4:** Concept of line plan, working drawing and submission drawing.
20	10/03/2021	Concept of site plan, block plan and layout plan
21	16/03/2021	Concept of foundation plan and use.
22	17/03/2021	Types of public building and their requirements, planning of public.
23	18/03/2021	Preparing line plans of different public buildings suchas
24	23/03/2021	Free-hand sketch
25	24/03/2021	Developing working and submission drawing of load bearing and frame structural building.
26	25/03/2021	Developing working and submission drawing of load bearing and frame structural building.
27	30/03/2021	Developing working and submission drawing of load bearing and frame structural building.

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Execution Plan

Name of Faculty: Prof. S. D. Malkhede **Subject Code: 3CE05** **Section: B**
Subject Name: Concrete technology & RCC **Semester: IV** **Year: Second year**

Sr No	Date	Topics Covered
1	21/08/2020	Introduction to RCC-I , Syllabus
2	28/08/2020	Cement manufacturing
3	29/08/2020	Wet and Dry process
4	01/09/2020	Test on cement
5	04/09/2020	Aggregate, Classification
6	05/09/2020	Test on aggregate
7	08/09/2020	Test on aggregate
8	11/09/2020	fresh concrete
9	12/09/2020	Properties of fresh concrete
10	15/09/2020	Properties of fresh concrete
11	18/09/2020	Properties of hardened concrete
12	19/09/2020	compressive, tensile, strength
13	22/09/2020	creep of concrete
14	25/09/2020	shrinkage of concrete
15	25/09/2020	durability of concrete

16	26/09/2020	laboratory tests on concrete
17	29/09/2020	laboratory tests on concrete
18	03/10/2020	Introduction to Admixtures
19	06/10/2020	Plasticizer, retarder
20	13/10/2020	accelerators, water proofing agents
21	20/10/2020	Mineral admixtures, IS code provisions.
22	23/10/2020	Introduction of mix design,
23	24/10/2020	factors governing mix design,
24	27/10/2020	Procedure of mix design,
25	31/10/2020	Numerical on mix design,
26	03/11/2020	Numerical on mix design,
27	06/11/2020	Numerical on mix design,
28	07/11/2020	Numerical on mix design
29	10/11/2020	singly reinforced beam
30	20/11/2020	Numerical on singly reinforced beams
31	21/11/2020	Numerical on singly reinforced beams
32	24/11/2020	Numerical on singly reinforced beams
33	27/11/2020	Doubly reinforced beams
34	28/11/2020	Numerical on Doubly reinforced beams

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Execution Plan

Name of Faculty: Prof. Ms. S. C. Sagane **Subject Code: 4CE03** **Section: C**

Subject Name: Structural Analysis - I **Semester: IV** **Year: Second Year**

Sr. No.	Date	Topics Covered
1	01/02/2021	UNIT 1: Classification of Structures
2	02/02/2021	Concept of statically indeterminate beam and frame
3	03/02/2021	Analysis of fixed beam Problem 1
4	04/02/2021	Analysis of fixed beam Problem 2
5	08/02/2021	Analysis of propped cantilever
6	09/02/2021	Analysis of fixed beam with Rotation and sinking of support
7	10/02/2021	Analysis of Continuous beam by theorem of three moments Problem 1
8	11/02/2021	Analysis of Continuous beam with sinking of support Problem 2
9	15/02/2021	Analysis of Continuous beam with sinking of support Problem 2
10	16/02/2021	Analysis of Continuous beam with sinking of support Problem 3
11	17/02/2021	Analysis of Continuous beam with sinking of support Problem 4
12	18/02/2021	Unit-II: Castigliano's theorem I
13	22/02/2021	slope and deflection in determinate beams
14	23/02/2021	slope and deflection in determinate beams portals
15	24/02/2021	Unit load method Problem 1
16	25/02/2021	Unit load method Problem 2
17	01/03/2021	Deflection in determinate trusses

18	03/03/2021	Deflection in determinate trusses
19	04/03/2021	Unit-III: Influence line diagrams for reactions, bending moment and shear force for determinate beams. Problem 1
20	08/03/2021	Problem 2, 3
21	09/03/2021	Rolling loads on simply supported beams concentrated and uniformly distributed loads
22	10/03/2021	Problems on maximum shear force and bending moment, focal length
23	16/03/2021	Problems on maximum shear force and bending moment, focal length
24	17/03/2021	Unit-IV: Rolling loads on trusses
25	18/03/2021	Influence line diagrams for forces in members of simple trusses
26	22/03/2021	Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust Problem 1
27	23/03/2021	Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust Problem 2
28	24/03/2021	Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust Problem 3
29	25/03/2021	Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust Problem 4
30	30/03/2021	Unit-V: Analysis of continuous beams by Slope deflection method Problem 1
31	31/03/2021	Analysis of continuous beams by Slope deflection method Problem 2 without sinking of support.
32	01/04/2021	Analysis of continuous beams by Slope deflection method Problem 3
33	05/04/2021	Analysis of continuous beams by Slope deflection method Problem 4

34	06/04/2021	Analysis of continuous beams by Slope deflection method Problem 5
35	07/04/2021	Analysis of continuous beams by Slope deflection method Problem 6
36	08/04/2021	Analysis of portal frames without side sway problem 1
37	12/04/2021	Analysis of portal frames without side sway problem 2
38	15/04/2021	Analysis of portal frames without side sway problem 3
39	19/04/2021	Analysis of portal frames without side sway problem 4
40	20/04/2021	Unit-VI: Analysis of continuous beams by Moment Distribution method Problem 1
41	21/04/2021	Analysis of continuous beams by Moment Distribution method Problem 2 without sinking of support.
42	22/04/2021	Analysis of continuous beams by Moment Distribution method Problem 3
43	24/05/2021	Analysis of continuous beams by Moment Distribution method Problem 4
44	25/05/2021	Analysis of continuous beams by Moment Distribution on method Problem 5
45	27/05/2021	Analysis of continuous beams by Moment Distribution method Problem 6
46	31/05/2021	Analysis of portal frames without side sway problem 1
47	01/06/2021	Analysis of portal frames without side sway problem 2
48	02/06/2021	Analysis of portal frames without side sway problem 3
49	03/06/2021	Analysis of portal frames without side sway problem 4

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Computer Science & Engineering
(Odd Semester 2020-2021)
Execution Plan

Name of Faculty: Prof. M. A. Banarase **Subject Code: 5CE05** **Section: A**

Subject Name: BPCAD **Semester: IV** **Year: Second Year**

Sr. No	Date	Topics Covered
1	19/01/2021	**Unit 1:** Introduction: Importance of building drawing for Civil Engineering.
2	20/01/2021	Method of drawing – Selection of scales for various drawings
3	23/01/2021	Abbreviations & graphical symbols used in Civil Engineering Drawing
4	27/01/2021	Combined first angle & third angle method of projection.
5	30/01/2021	Layout of sheet for civil engineering drawing,
6	02/02/2021	Requirements of drawing as per plan sanctioning authorities.
7	03/02/2021	**Unit 2:** Concept of line plan & working drawings of the building.
8	06/02/2021	Developing working drawings of the building from the given lineplan
9	09/02/2021	Necessity and use of working drawing.
10	10/02/2021	Concept of site plan, block plan and layout plan. Importance and
11	13/02/2021	Developing working drawing and foundation plan for load bearing
12	16/02/2021	**Unit 3:** Planning of residential building. Introduction, general principles.
13	17/02/2021	Planning of residential building. Introduction, general principles.
14	20/02/2021	Temperature Climate and design consideration. Orientation of buildings

15	23/02/2021	Requirement of the owner, alternatives of building types.
16	24/02/2021	Common utilities such as parking, security, water supply, sanitation
17	27/02/2021	Criteria for earthquake resistant planning of building.
18	02/03/2021	Criteria for earthquake resistant planning of building.
19	03/03/2021	**Unit 4:** Concept of line plan, working drawing and submission drawing.
20	06/03/2021	Concept of site plan, block plan and layout plan
21	09/03/2021	Concept of foundation plan and use.
22	10/03/2021	Types of public building and their requirements, planning of public.
23	16/03/2021	Preparing line plans of different public buildings suchas schools,
24	17/03/2021	Free-hand sketch
25	20/03/2021	Developing working and submission drawing of load bearing and frame structural building.
26	23/03/2021	Developing working and submission drawing of load bearing and frame structural building.
27	24/03/2021	Developing working and submission drawing of load bearing and frame structural building.

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Civil Engineering
(Even Semester 2020 - 2021)

Execution Plan

Name of Faculty: Prof. R. V. Langote **Subject Code: 6CE0 (CBCS)** **Section: A**

Subject Name: Water Resource Engineering – I **Semester: VI** **Year: Third Year**

Sr. No.	Date	Topics Covered
1	25/01/2021	**Unit I:** Estimation of average rain gauge stations, Problems on avg rainfall Estimation
2	27/01/2021	Estimation of missing rainfall data, intensity frequency duration relation
3	28/01/2021	Yield of an open well, Recuperation test constant pumping level test
4	01/02/2021	**Unit II:** Evaporation: Process, factors affecting, measurement and estimation
5	03/02/2021	Infiltration: Process, factors affecting, measurement, Infiltration
6	24/02/2021	**Unit III:** Run-off: Factors affecting, estimation of runoff, Rainfall- Runoff coefficient
7	25/02/2021	Floods: Flood classification, importance, estimation of flood,
8	25/02/2021	Floods: Flood classification, importance, estimation of flood,
9	01/03/2021	Hydrographs: Typical flood hydrograph, base flow separation, unit hydrograph
10	02/03/2021	Problems on unit hydrograph
11	03/03/2021	Problems on flood hydrograph
12	04/03/2021	problems on hydrograph using S-Curve method
13	08/03/2021	**Unit IV:** Introduction to irrigation engineering, defect or ill effect of irrigation
14	10/03/2021	Necessity & advantages of irrigation
15	15/03/2021	Properties of soil & types of soil, types of soil & soil moisture classification
16	08/04/2021	Minor irrigation work, Bandhara irrigation work
17	15/04/2021	Percolation tank, flow & lift irrigation
18	19/04/2021	**Unit V:** Crop water requirement, Relation between delta, duty & base period
19	22/04/2021	Principal of crops, command area definition

20	29/04/2021	Gross command area, culturable command area & some other definitions
21	03/05/2021	Problems on irrigation
22	05/05/2021	Consumptive Use of Water & its Estimation and problems
23	06/05/2021	Irrigation methods, surface irrigation methods
24	11/05/2021	Irrigation methods- surface irrigation - free flooding, check flooding
25	12/05/2021	**Unit VI:** Ground Water, Ground water parameters, Derivation on confined aquifer
26	12/05/2021	Derivation on Unconfined Aquifer, Problems on aquifer
27	13/05/2021	Water Harvesting - Introduction, Methods, Elements of Rain Water harvesting

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Civil Engineering
(Even Semester 2020-2021)

Execution Plan

Name of Faculty: Prof. A.S.Deshmukh **Subject Code: Section: A**

Subject Name: Estimating & Costing **Semester: VI** **(EVEN) Year: Third**

Sr. No.	Date	Topics Covered
1	19/1/2021	**UNIT 1:-** Purpose of estimate
2	20/1/2021	**UNIT 1:-** Mode of measurment and unit as per IS 1200
3	21/1/2021	**UNIT 1:-** Data required for estimate, Current rates of material and labur as per
4	22/1/2021	**UNIT 1:-** Specification: there purpose, principal and type, Types of estimate, A
5	27/1/2021	**UNIT 1:-** Specification: there purpose, principal and type, Types of estimate, A
6	28/1/2021	**UNIT 1:-** Problem on 4 room for measurment only
7	29/1/2021	**UNIT 1:-** Problem on 4 room for measurment only
8	1/2/2021	**UNIT 1:-** Problem on 4 room for measurment only.
9	3/2/2021	**UNIT 2 :-** Purpose, principal and importance of Schedule of Rate in cost estimate
10	4/2/2021	**UNIT 2 :-** Rec. from N>B>O> for task work, No. of workman,etc, Schedule of rate.
11	8/2/2021	**UNIT 2 :-** rate analysis with transportration cost
12	9/2/2021	**UNIT 2 :-** rate analysis with transportration cost
13	10/2/2021	**UNIT 2 :-** rate analysis with transportration cost
14	11/2/2021	**UNIT 2 :-** Workout the quantity of material.
15	15/2/2021	**UNIT 2 :-** Workout the quantity of material.
16	17/2/2021	**UNIT 2 :-** Revision, discussion and solve previous year question papers.
17	18/2/2021	**UNIT 2 :-** Methods of detail estimate, forms use
18	22/2/2021	**UNIT 3 :-** Detail estimate of building
19	23/2/2021	**UNIT 3 :-** Detail estimate of building

20	24/2/2021	**UNIT 3 :-** Detail estimate of building
21	25/2/2021	**UNIT 3 :-** Detail estimate of building
22	2/3/2021	**UNIT 3 :-** Detail estimate of building
23	3/3/2021	**UNIT 4 :-** Earth work: Road
24	4/3/2021	**UNIT 4 :-** Earth work: Road
25	5/3/2021	**UNIT 4 :-** Earth work: Road
26	9/3/2021	**UNIT 4 :-** Earth work: Road
27	10/3/2021	**UNIT 4 :-** Earth work: Road
28	12/3/2021	**UNIT 4 :-** Earth work: Earthen Dam
29	16/3/2021	**UNIT 4 :-** Revision, discussion and solve previous year question papers
30	17/3/2021	**UNIT 5 :-** Porpose of valuation, Market value
31	18/3/2021	**UNIT 5 :-** value & cost, sentimental value
32	19/3/2021	**UNIT 5 :-** Scrap value, potential value, etc
33	23/3/2021	**UNIT 5 :-** Annualized value, capitalised value
34	24/3/2021	**UNIT 5 :-** free hold & lease hold property
35	25/3/2021	**UNIT 5 :-** Net and gross return, guilt adged security
36	26/3/2021	**UNIT 6 :- Organisation, site administration.**
37	30/3/2021	**UNIT 6 :-** Labour contracts, BOT, Rules of gov. deptt. as a construction agency.
38	31/3/2021	**UNIT 6 :-** Arranging works.
39	1/4/2021	**UNIT 6 :-** Indian contract law and engg. contract. Land acquiction act.

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Civil Engineering
(Even Semester 2020-2021)

Execution Plan

Name of Faculty: Prof. Ms. M. S. Mahalle **Subject Code:** **Section: C**

Subject Name: Transportation Engineering II **Semester: VI** **Year: Thirt Year**

Sr.No	Date	Topics Covered
		Unit 1
1	18/01/2021	Railway transportation, classification Railway surveying
2	19/01/2021	track standard terminology,
3	20-01-2021	track sections in embankment & cutting,
4	22/01/2021	high speed trains, Traction and tractive resistance
5	25/01/2021	hauling capacity and tractive effort of locomotives,different types of traction.
		Unit-II
6	27-01-2021	Permanent way, requirement, gauges
7	29-01-2021	coning of wheels, components of permanent way
9	01-02-2021	Rail types and functions, defects in Rails
10	02-02-2021	Rail joints, Sleeper density,
11	03-02-2021	Rail fixtures & fastening
12	05-02-2021	Geometric design of railway track, gauge,
13	08-02-2021	gradients, speed, superelevation, cant deficiency
14	09-02-2021	negative superelevation, grade compensation, curves,
15	10-02-2021	Railway accidents and causes.
		Unit-III
16	12-02-2021	Points and crossing Left & right hand turnouts,
17	15-02-2021	design calculations for turnout & cross over,
18	16-02-2021	types of Track junction, long welded rails
19	17-02-2021	Station and yards- types, function
20	22-02-2021	facilities & equipment. Railway signalling and interlocking
21	23-02-2021	objects, classification & types of signals,
22	24-02-2021	control & movement of trains
		Unit-IV
23	26-02-2021	AIRPORT: Development of air transportation in India,
24	01-03-2021	Agencies controlling national & international aviation
25	02-03-2021	Various surveys to be conducted, airport site selection,
26	03-03-2021	Airport drainage, Aeroplane component parts,
27	05-03-2021	Aircraft characteristics. Airport obstructions: Zoning laws,

28	08-03-2021	imaginary surfaces approach and turning zone Runway
29	09-03-2021	Taxiway design: orientation of runway, wind rose diagram,
30	10-03-2021	basic runway length and corrections, runway geometric design standards.
		Unit-V
31	12-03-2021	Airport layout, Terminal area, Terminal area,
32	15-03-2021	unit terminal concept, Apron, Apron layout,
33	16-03-2021	Aircraft parking & Parking system
34	17-03-2021	Visual aids, Airport parking & lighting of runway,
35	19-03-2021	taxiway and other areas Airport traffic control,
36	22-03-2021	need of control aids, instrumental landing systems, accidents in the air
		Unit-VI
37	23-03-2021	TUNNELS: Tunnels necessity, types, tunnel economics, tunnel alignment
38	24-03-2021	tunneling methods in soft soil & hard Rock
39	26-03-2021	Needle beam method, drift method.
40	30-03-2021	Size and shape of tunnels, Tunnel lining, drainage
41	31-03-2021	ventilation & lighting of tunnels.

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(Even Semester 2020-2021)

Execution Plan

Name of Faculty: Prof. Ms. S. C. Sagane **Subject Code: 6CE03** **Section: C**

Subject Name: Water Resources Engineering - I **Semester: VI** **Year: Third Year**

Sr. No.	Date	Topics Covered
1	21/01/2021	Unit-I Engineering Hydrology: Definition and its importance, Hydrologic Cycle
2	03/02/2021	Hydrologic Cycle, Hydrologic data, Hydrologic equation
3	24/02/2021	Precipitation: Definition, Forms, Types, Measurement
4	25/02/2021	Rain gauge Network, Estimation of Missing data
5	26/02/2021	Consistency of data, Mean Areal Precipitation
6	03/03/2021	Unit II:Evaporation: Process, factors affecting, measurement and estimation, control of evaporation.
7	04/03/2021	Evapotranspiration:
8	05/03/2021	control of evapotranspiration
9	10/03/2021	Infiltration: Process, factors affecting, measurement, Infiltration indices.
10	12/03/2021	Run-off: Factors affecting, estimation of runoff, Rainfall- Runoff co-relation.
11	08/04/2021	Unit-III Floods: Flood classification, importance
12	09/04/2021	estimation of flood, flood control techniques
13	15/04/2021	Reservoir & channel routine.
14	16/04/2021	Hydrographs: Typical flood hydrograph, base flow separation

15	21/04/2021	Unit hydrograph, S-curve hydrograph
16	22/04/2021	Unit IV: Irrigation Engineering: Necessity and advantages of irrigation, suitability
17	23/04/2021	standards for irrigation water.
18	29/04/2021	Minor Irrigation Works: Necessity and general layout of Bandhara
19	30/04/2021	percolation Tank, design & construction of bridge cum bandharas, cement plus across nala in the water shed of the village.
20	05/05/2021	Lift Irrigation: Necessity and general layout, main components
21	06/05/2021	Unit-V Crop Water Requirements: Principal Indian crop seasons and water requirements for different crops
22	07/05/2021	Duty and Delta, Consumptive use of water and its estimation
23	12/05/2021	Irrigation efficiencies
24	20/05/2021	Irrigation methods: Comparative study of different irrigation methods
25	21/05/2021	basic of drip & sprinkler irrigation, its scope and applicability
26	27/05/2021	Unit VI: Ground water: Aquifer parameters, Well hydraulics for steady and
27	28/05/2021	safe yield and yield
28	01/06/2021	Water Harvesting: Definition, need for water harvesting, water harvesting potentially, elements of typical water
29	02/06/2021	Methods of water harvesting
30	03/06/2021	cost of water harvesting

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Department of Civil Engineering
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Execution Plan

Name of Faculty: Prof. P.S.Pajgade Subject Code:6CE02 Section: A

Subject Name: Design of steel R CC & Prestressed Concrete Semester: VI Year: Third Year

S N	DATE	Description
1	18/01/2021	Introduction
2	19/01/2021	General loading
3	20/01/2021	Arrangements of colunms and beams
4	22/01/2021	Load distribution
5	25/01/2021	one way slab
6	27/01/2021	one way slab reinforcement
7	29/01/2021	simple structure Problem
8	30/01/2021	General discussion
9	01/02/2021	simple structure Problem
10	02/02/2021	simple structure Problem design of beam
11	03/02/2021	simple structure Problem shear design of beam
12	24/02/2021	simple structure Problem shear design of beam
13	26/02/2021	simple structure Problem shear design of beam & Column
14	01/03/2021	simple structure Problem footing
15	01/03/2021	simple structure Problem footing Extra
16	02/03/2021	other options
17	03/03/2021	Two way slab arrangement
18	05/03/2021	Presentation
19	05/03/2021	Two way slab arrangement
20	08/03/2021	flat slab
21	08/03/2021	Presentation
22	09/03/2021	Flat slab
23	10/03/2021	Flat slab
24	12/03/2021	Flat slab
25	15/03/2021	Flat slab two way shear
26	16/03/2021	Flat slab bending moment
27	09/04/2021	Flat slab bending moment
28	12/04/2021	Flat slab bending moment (Extra RVL)
29	04/12/2021	Flat slab reinforcement detailing
30	16/04/2021	Combined footing
31	18/04/2021	fat slab doubt solving
32	19/04/2021	combined footing
33	20/04/2021	combined footing

34	21/04/2021	combined footing
35	23/04/2021	combined footing
36	30/04/2021	combined footing
37	03/05/2021	combined footing
38	03/05/2021	General discussion on sheet no 1
39	04/05/2021	Cantilever Retaining wall
40	05/05/2021	Cantilever Retaining wall
41	06/05/2021	Cantilever Retaining wall
42	07/05/2021	Counterfort retaining wall
43	10/05/2021	Prestress Concrete
44	10/05/2021	Prestress Concrete(extra)
45	11/05/2021	Prestress Concrete
46	11/05/2021	Prestress Concrete(extra)
47	12/05/2021	loss of prestress
48	17/05/2021	loss of prestress
49	17/05/2021	Stresses in beam
50	18/05/2021	Design of beam
51	18/05/2021	Design of beam
52	19/05/2021	Design of beam + Water tank
53	20/05/2021	Design of water tank

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Execution Plan

Name of Faculty: Prof. V.S.Gohatre Subject Code:6CE02 Section: B

Subject Name: Project Planning & Management Semester: VI Year: Third Year

Sr.No	Date	Topics Covered
		Unit 1
1	18/01/2021	Project, Project Stakeholders, Project life cycle
2	20/01/2021	Conceptual Phase, Planning Phase, Execution Phase, Termination phase.
3	22/01/2021	Concept of feasibility study, Budgeting, Cash Flow
4	25/01/2021	Risk assessment plan. Project planning- Steps, work break down structure
5	27/01/2021	Scheduling. Project Monitoring & Controlling- Concept of Tracking
6	29/01/2021	Reviewing and Rescheduling. Planning Tools: Basic concept of Gantt chart, Bar Chart
7	1/2/2021	Mile stone chart, their advantage, limitations and overcoming measures
		Unit-II
8	3/2/2021	Networking – Activity, Event, dummy Activity,
9	5/2/2021	Fulerson's numbering rule, Geometrical consideration.
10	8/2/2021	Critical Path Method: Concept, technique, Critical path, Numerical on Time and Floats computation
11	10/2/2021	concept of Updating Network and its numerical for computation.
		Unit-III
12	12/2/2021	PERT: Concept, technique, three time estimates average time,
13	15/02/2021	Critical path, slack computation S.D, Variance,
14	17/02/2021	Probability factor, crash programme, normal and crash cost, normal and crash time
15	22/02/2021	cost slope, Numerical on Probability computation, crashing
		Unit-IV
16	24/02/2021	Concept of resource smoothening and leveling, Cost Curves
17	26/02/2021	Numerical of it. Introduction to Planning
18	1/3/2021	Various stages and process for Work Breakdown structure
19	3/3/2021	planning, scheduling and resource allocation for project by software
20	5/3/2021	One Compulsory assignment for planning
21	8/3/2021	scheduling and resource allocation for construction project using software

		Unit-V
22	10/3/2021	Management- Feyol's Principal of Management, Functions of management
23	12/3/2021	organization definition, type line, line and staff
24	15/3/2021	functional organization, quality control, ISO
25	17/3/2021	Safety management, construction hazards in multistage building
26	19/03/2021	method of prevention of accident, injury rate
27	22/03/2021	injury severity rate, injury index, National safety council, its role recommendation
28	24/03/2021	Material management, Objective, Functions, Inventory, Need for inventory, ABC, EOQ analysis.
		Unit-VI
29	26/03/2021	Power shovel: Construction, working, Output, factors affecting, cycle time, Problem on Output
30	31/03/2021	payback period of equipments
31	5/4/2021	Dragline: Construction, working, output, factor affect ting output
32	8/4/2021	cycle time, Problem on output
33	10/4/2021	Concrete mixer, Tilting and non-tilting type construction working.

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Execution Plan

Name of Faculty: Prof. V.S.Gohatre Subject Code:6CE02 Section: B

Subject Name: Transportation Engineering 2 Semester: VI Year: Third Year

Sr.No	Date	Topics Covered
		Unit 1
1	18/01/2021	Railway transportation, classification Railway surveying
2	19/01/2021	track standard terminology,
3	21/01/2021	track sections in embankment & cutting,
4	22/01/2021	high speed trains, Traction and tractive resistance
5	25/01/2021	hauling capacity and tractive effort of locomotives,different types of traction.
		Unit-II
6	28/01/2021	Permanent way, requirement, gauges
7	29/01/2021	coning of wheels, components of permanent way
9	1/2/2021	Rail types and functions, defects in Rails
10	2/2/2021	Rail joints, Sleeper density,
11	4/2/2021	Rail fixtures & fastening
12	5/2/2021	Geometric design of railway track, gauge,
13	8/2/2021	gradients, speed, superelevation, cant deficiency
14	9/2/2021	negative superelevation, grade compensation, curves,
15	11/2/2021	Railway accidents and causes.
		Unit-III
16	12/2/2021	Points and crossing Left & right hand turnouts,
17	15/2/2021	design calculations for turnout & cross over,
18	16/02/2021	types of Track junction, long welded rails
19	18/02/2021	Station and yards- types, function
20	22/02/2021	facilities & equipment. Railway signalling and interlocking
21	23/02/2021	objects, classification & types of signals,
22	25/02/2021	control & movement of trains
		Unit-IV
23	26/02/2021	AIRPORT: Development of air transportation in India,
24	1/3/2021	Agencies controlling national & international aviation
25	2/3/2021	Various surveys to be conducted, airport site selection,
26	4/3/2021	Airport drainage, Aeroplane component parts,
27	5/3/2021	Aircraft characteristics. Airport obstructions: Zoning laws,

28	8/3/2021	imaginary surfaces approach and turning zone Runway
29	9/3/2021	Taxiway design: orientation of runway, wind rose diagram,
30	12/3/2021	basic runway length and corrections, runway geometric design standards.
		Unit-V
31	15/3/2021	Airport layout, Terminal area, Terminal area,
32	16/03/2021	unit terminal concept, Apron, Apron layout,
33	18/03/2021	Aircraft parking & Parking system
34	19/03/2021	Visual aids, Airport parking & lighting of runway,
35	22/03/2021	taxiway and other areas Airport traffic control,
36	23/03/2021	need of control aids, instrumental landing systems, accidents in the air
		Unit-VI
37	25/03/201	TUNNELS: Tunnels necessity, types, tunnel economics, tunnel alignment
38	26/03/2021	tunneling methods in soft soil & hard Rock
39	30/03/2021	Needle beam method, drift method.
40	31/03/2021	Size and shape of tunnels, Tunnel lining, drainage
41	2/4/2021	ventilation & lighting of tunnels.

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Execution Plan

Name of Faculty: Prof. P. V. Kolhe Subject Code: 7CE02 (CGS) Section: C

Subject Name: Geotechnical Engineering – II Semester: VII Year: Final Year

Sr. No.	Date	Topics Covered
1	17/08/2020	**Unit I:** Field exploration, objectives and methods of exploration
2	18/08/2020	Planning of exploration programme soil boring
3	20/08/2020	Hand augers, percussion boring, rotary wash boring, collection of sample
4	21/08/2020	Split spoon sampler, area ratio, disturbed and undisturbed sample
5	24/08/2020	SPT test, field vane shear test,
6	25/08/2020	Geophysical methods, electrical resistivity and soil refraction methods
7	27/08/2020	Soil log bore presentation and interpretation exploration data. Ground improvement techniques
8	28/08/2020	Numericals
9	31/08/2020	Numericals
10	01/09/2020	**Unit II:** Bearing capacity and concept of local and general shear failure
11	03/09/2020	Terzaghi's and Skempton's Theory of BC
12	04/09/2020	Meyerhof's and BIS method for bearing capacity
13	07/09/2020	Determination bearing capacity of granular soils based on SPT value
14	08/09/2020	Concept of raft foundation and floating foundation
15	10/09/2020	In situ methods of evaluation of bearing capacity
16	11/09/2020	Plate load test, static cone penetrometer
17	14/09/2020	Pressure meter test contact pressure distribution diagram below the base of footing
18	15/09/2020	Numericals
19	17/09/2020	**Unit III:** Earth pressure at rest, general & local Stages of plastic equilibrium, Rankine's and coulomb's theory of active and passive earth pressure on retaining wall
20	18/09/2020	Influence of surcharge, water table, wall friction
21	21/09/2020	Rebhann's and Culmann's simple graphical methods
22	22/09/2020	Introduction to sheet pile and bulkhead and their classifications

23	24/09/2020	(No design criteria) Cofferdam purpose, various types and their suitability.
24	25/09/2020	Numericals
25	28/09/2020	Numericals
26	29/09/2020	**Unit IV:** Classification of piles and their uses
27	01/10/2020	Static analysis
28	05/10/2020	Dynamic analysis
29	06/10/2020	Piles in group and their capacity, group efficiency, factors affecting group efficiency
30	08/10/2020	Behaviour of group of pile in sandy and in clayey soil, pile load test, effect of pile cap
31	09/10/2020	Criteria for spacing and depth of piles. IS design criterion for undereamed Pile in clay and sands
32	15/10/2020	Numericals
33	16/10/2020	**Unit V:** Immediate, primary and secondary settlement for footing resting on homogenous isotropic, cohesive and cohesion less soils related to single footing, combined footing, & raft foundation etc
34	19/10/2020	Concept of differential settlement factors and causes for differential settlement, BIS requirement for total as well as differential settlement
35	20/10/2020	Proportioning of footing for uniform settlement
36	22/10/2020	Computation of total and differential settlement of a single pile and group of piles in sandy and clayey soil.
37	23/10/2020	Numericals
38	26/10/2020	**Unit VI:** Component & their function, sinking of well, types of force system, and their computation
39	27/10/2020	Design criteria for various components of wells
40	29/10/2020	Tilting and shifting Bearing capacity of well as per BIS.
41	02/11/2020	Stability analysis of infinite and finite slope, causes of failure of slopes
42	03/11/2020	Stability analysis of infinite and finite slope in cohesive and non-cohesive soils
43	05/11/2020	Taylor's stability number, Friction circle method and Swedish circle
44	06/11/2020	Numericals

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Execution Plan

Name of Faculty: Prof. R. V. Langote **Subject Code: 7CE02 (CGS)** **Section: C**

Subject Name: Geotechnical Engineering – II **Semester: VII** **Year: Final Year**

Sr. No.	Date	Topics Covered
1	17/08/2020	**Unit I:** Field exploration, objectives and methods of exploration
2	18/08/2020	Planning of exploration programme soil boring
3	20/08/2020	Hand augers, percussion boring, rotary wash boring, collection of sample
4	21/08/2020	Split spoon sampler, area ratio, disturbed and undisturbed sample
5	24/08/2020	SPT test, field vane shear test,
6	25/08/2020	Geophysical methods, electrical resistivity and soil refraction methods
7	27/08/2020	Soil log bore presentation and interpretation exploration data. Ground improvement techniques
8	28/08/2020	**Unit II:** Bearing capacity and concept of local and general shear failure
9	31/08/2020	Terzaghi's and Skempton's Theory of BC
10	03/09/2020	Meyerhof's and BIS method for bearing capacity
11	04/09/2020	Determination bearing capacity of granular soils based on SPT value
12	07/09/2020	Concept of raft foundation and floating foundation
13	08/09/2020	In situ methods of evaluation of bearing capacity
14	10/09/2020	Plate load test, static cone penetrometer
15	11/09/2020	Pressure meter test contact pressure distribution diagram below the base of footing
16	14/09/2020	**Unit III:** Earth pressure at rest, general & local Stages of plastic equilibrium, Rankine's and coulomb's theory of active and passive earth pressure on retaining wall
17	15/09/2020	Influence of surcharge, water table, wall friction
18	16/09/2020	Rebhann's and Culmann's simple graphical methods
19	18/09/2020	Introduction to sheet pile and bulkhead and their classifications
20	21/09/2020	(No design criteria) Cofferdam purpose, various types and their suitability.
21	22/09/2020	**Unit IV:** Classification of piles and their uses

22	23/09/2020	Static analysis
23	24/09/2020	Dynamic analysis
24	29/09/2020	Piles in group and their capacity, group efficiency, factors affecting group efficiency
25	01/10/2020	Behaviour of group of pile in sandy and in clayey soil, pile load test, effect of pile cap
26	06/10/2020	Criteria for spacing and depth of piles. IS design criterion for undereamed Pile in clay and sands
27	08/10/2020	**Unit V:** Immediate, primary and secondary settlement for footing resting on homogenous isotropic, cohesive and cohesion less soils related to single footing, combined footing, & raft foundation etc
28	09/10/2020	Concept of differential settlement factors and causes for differential settlement, BIS requirement for total as well as differential settlement
29	12/10/2020	Proportioning of footing for uniform settlement
30	15/10/2020	Computation of total and differential settlement of a single pile and group of piles in sandy and clayey soil.
31	16/10/2020	**Unit VI:** Component & their function, sinking of well, types of force system, and their computation
32	19/10/2020	Design criteria for various components of wells
33	20/10/2020	Tilting and shifting Bearing capacity of well as per BIS.
34	22/10/2020	Stability analysis of infinite and finite slope, causes of failure of slopes
35	03/11/2020	Stability analysis of infinite and finite slope in cohesive and non-cohesive soils
36	05/11/2020	Taylor's stability number, Friction circle method and Swedish circle

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Execution Plan

Name of Faculty: S. R. Bhuskade **Subject Code: 7CE03** **Section: C**

Subject Name: Design of Steel Structure **Semester: VII** **Year: Fourth Year**

SR. No.	Date	Topic Covered
1	17/08/20	Basic Introduction
2	18/08/20	Introduction To LSM & WSM
3	20/08/20	Introduction To LSM & WSM-1
4	24/08/20	Introduction To Plastic Analyasis-1
5	25/08/20	Introduction To Plastic Analyasis-2
6	27/08/20	Introduction To Plastic Analyasis-3
7	31/08/20	Design of Bolted Connection-1
8	2/09/20	Design of Bolted Connection-2
9	3/09/20	Design of Bolted Connection-3
10	7/09/20	Design of Bolted Connection-4
11	8/09/20	Design of Bolted Connection-5
12	9/09/20	Design of Bolted Connection-6
13	10/09/20	Design of Bolted Connection-7
14	14/09/20	Dsign of Welded Connection-1
15	15/09/20	Dsign of Welded Connection-2
16	16/09/20	Dsign of Welded Connection-3
17	21/09/20	Dsign of Welded Connection-4
18	22/09/20	Dsign of Welded Connection-5
19	23/09/20	Dsign of Welded Connection-6
20	24/09/20	Design of Slab Base-1
21	28/09/20	Design of Slab Base-2
22	29/09/20	Design of Slab Base-3
23	30/09/20	Design of Slab Base-4
24	1/10/20	Design of Slab Base-5
25	5/10/20	Design of Gusseted Base-1

26	6/10/20	Design of Gusseted Base-2
27	7/10/20	Design of Gusseted Base-3
28	8/10/20	Design of Gusseted Base-4
29	12/10/20	Design of Gusseted Base-5
30	13/10/20	Design of Simple Beam-1
31	14/10/20	Design of Simple Beam-2
32	19/10/20	Design of Simple Beam-3
33	20/10/20	Design of Simple Beam-4
34	21/10/20	Design of Compound Beam-1
35	22/10/20	Design of Compound Beam-2
36	3/11/20	Design of Compound Beam-3
37	4/11/20	Design of Compound Beam-4
38	5/11/20	Design of Compound Beam-5
39	23/11/20	Design of Tension Member-1
40	24/11/20	Design of Tension Member-2
41	25/11/20	Design of Tension Member-3
42	26/11/20	Design of Compression Member-1
43	2/12/20	Design of Compression Member-2
44	3/12/20	Design of Column-1
45	4/12/20	Design of Column-2

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Execution Plan

Name of Faculty: Dr. N. P. Kataria **Subject Code: 7CE01** **Section: A**

Subject Name: Theory of Structure - II **Semester: VII** **Year: Final Year**

Sr.No	Date	Topics Covered
1	18-08-20	**Unit 1:** Introduction to TOS II
2	20-08-20	Basics of SFD, BMD, Steel Structure
3	21-08-20	Stress-Strain Behavior of steel
4	25-08-20	Introduction to plastic analysis
5	27-08-20	Shape Factor
6	28-08-20	Shape factor for composite section
7	02-09-20	Plastic moment analysis
8	04-09-20	Plastic moment analysis of Cont. Beam 1
9	08-09-20	Plastic moment analysis of Cont. Beam 2
10	09-09-20	Plastic moment analysis of Cont. Beam 3
11	10-09-20	Plastic moment analysis of Portal frame
12	11-09-20	**Unit 2:** Introduction to MDM
13	14-09-20	Analysis of Frame using MDM for Sway 1
14	15-09-20	Analysis of Frame using MDM for Sway 1_2

15	16-09-20	Analysis of Frame using MDM for Sway 2
16	18-09-20	Analysis of Frame using MDM for Sway 3
17	21-09-20	Analysis of Frame using MDM for Sway 4
18	22-09-20	Sway analysis using Slope deflection method
19	23-09-20	Sway analysis using Slope deflection method example 1
20	24-09-20	Sway analysis using Slope deflection method example 2
21	25-09-20	Sway analysis using Slope deflection method example 3
22	29-09-20	**Unit 3:** Introduction to Kani's Method
23	30-09-20	Analysis of continuous beam using Kani's Method example 1
24	01-10-20	Analysis of continuous beam using Kani's Method example 2
25	06-10-20	Analysis of continuous beam using Kani's Method example 3
26	07-10-20	Analysis of Portal frame using Kani's Method example 1, 2
27	08-10-20	Analysis of symmetric Portal frame using Kani's Method example 1
28	13-10-20	Analysis of symmetric Portal frame using Kani's Method example 2
29	14-10-20	Analysis of symmetric Portal frame using Kani's Method example 3

30	15-10-20	Analysis of symmetric Portal frame using Kani's Method example 4
31	21-10-20	Analysis of Portal frame using subjected to sway Kani's Method example
32	22-10-20	**Unit 4:** Introduction to Matrix Method
33	23-10-20	Analysis using Stiffness method
34	03-11-20	Analysis of Continuous beam using stiffness method
35	04-11-20	Problems on Continuous beam
36	05-11-20	Problems on Portal frames
37	06-11-20	Problems on Portal frames
38	24-11-20	**Unit 5:** Introduction to castigliano's theorems
39	25-11-20	Analysis of portal frame using castigliano's theorem
40	26-11-20	Analysis of portal frame using castigliano's theorem
41	27-11-20	Analysis of 2D Truss using castigliano's theorem
42	02-12-20	Analysis of 2D truss using castigliano's theorem
43	03-12-20	**Unit 6:** Introduction to Tension coefficient method
44	04-12-20	Analysis of 3D Truss using Tension coefficient method

45	08-12-20	Analysis of 3D Truss using Tension coefficient method 2
46	09-12-20	Analysis of 3D Truss using Tension coefficient method 3

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Execution Plan

Name of Faculty: Dr. M V Mohod **Subject Code: 7CE01** **Section: Section A**

Subject Name: Theory of Structure - II **Semester: VII** **Year: Final Year**

Sr.No	Date	Topics Covered
1	22/06/2019	**Unit 1:** Introduction to TOS II/ Introduction to MDM
2	24/06/2019	Analysis of Frame using MDM for Sway 1_0
3	2/7/2019	Analysis of Frame using MDM for Sway 1
4	2/7/2019	Analysis of Frame using MDM for Sway 1_2
5	3/7/2019	Analysis of Frame using MDM for Sway 2
6	4/7/2019	Analysis of Frame using MDM for Sway 3
7	5/7/2019	Analysis of Frame using MDM for Sway 4
8	6/7/2019	Sway analysis using Slope deflection method
9	8/7/2019	Sway analysis using Slope deflection method example 1
10	9/7/2019	Sway analysis using Slope deflection method example 2
11	10/7/2019	Sway analysis using Slope deflection method example 3
12	11/7/2019	**Unit 2:**Stress-Strain Behavior of steel
13	13-07-2019	Introduction to plastic analysis
14	15-07-2019	Shape Factor
15	24-07-2019	Shape factor for composite section
16	27-07-2019	Plastic moment analysis

17	29-07-2019	Plastic moment analysis of Cont. Beam 1
18	1/8/2019	Plastic moment analysis of Cont. Beam 2
19	1/8/2019	Plastic moment analysis of Cont. Beam 3
20	2/8/2019	Plastic moment analysis of Portal frame
21	2/8/2019	Plastic moment analysis of Portal frame
22	5/8/2019	**Unit 3:** Introduction to Kani's Method
23	5/8/2019	Analysis of continuous beam using Kani's Method example 1
24	8/8/2019	Analysis of continuous beam using Kani's Method example 2
25	19-08-2019	Analysis of continuous beam using Kani's Method example 3
26	19-08-2019	Analysis of Portal frame using Kani's Method example 1, 2
27	22-08-2019	Analysis of symmetric Portal frame using Kani's Method example 1
28	26-08-2019	Analysis of symmetric Portal frame using Kani's Method example 2
29	26-08-2019	Analysis of symmetric Portal frame using Kani's Method example 3
30	27-08-2019	Analysis of symmetric Portal frame using Kani's Method example 4
31	29-08-2019	Analysis of Portal frame using subjected to sway Kani's Method example
32	4/9/2019	**Unit 4:** Introduction to Matrix Method
33	10/9/2019	Analysis using Stiffness method
34	12/9/2019	Analysis of Continuous beam using stiffness method
35	16-09-2019	Problems on Continuous beam
36	16-09-2019	Problems on Portal frames
37	18-09-2019	Problems on Portal frames
38	19-09-2019	**Unit 5:** Introduction to Castiglione’s theorems
39	20-10-2019	Analysis of portal frame using Castiglione’s theorem
40	23-09-2019	Analysis of portal frame using castigliano's theorem
41	24-09-2019	Analysis of 2D Truss using castigliano's theorem

42	26-09-2019	Analysis of 2D truss using castigliano's theorem
43	30-09-2019	**Unit 6:** Introduction to Tension coefficient method
44	30-09-2019	Analysis of 3D Truss using Tension coefficient method
45	1/10/2019	Analysis of 3D Truss using Tension coefficient method 2
46	3/10/2019	Analysis of 3D Truss using Tension coefficient method 3
47	5/10/2019	Analysis of 3D Truss using Tension coefficient method 4

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Execution Plan

Name of Faculty: Prof. Ms. S. C. Sagane **Subject Code: 7CE01** **Section: C**

Subject Name: Theory of Structures - II **Semester: VII** **Year: Final Year**

Sr. No.	Date	Topics Covered
1	17/08/2020	Unit-I :Moment distribution method, application to portal frames with sway
2	18/08/2020	Multibay, multistoried, symmetrical
3	21/08/2020	Problem 3
4	24/08/2020	Problem 4
5	28/08/2020	Problem 5
6	31/08/2020	Problem 6
7	02/09/2020	Problem 7
8	04/09/2020	Slope deflection method: Application to portal frames with side sway.
9	07/09/2020	Problem 1
10	08/09/2020	Problem 2
11	09/09/2020	Problem 3
12	11/09/2020	Problem 4
13	14/09/2020	Unit-II : 1. Kani's method: Continuous beams
14	15/09/2020	single bay single storey portal frames with side sway
15	16/09/2020	Multi- bay
16	18/09/2020	multi storeyed frames subjected to symmetric loads Problem 1
17	21/09/2020	multi storeyed frames subjected to symmetric loads Problem 2

18	22/09/2020	multi storeyed frames subjected to symmetric loads Problem 3
19	23/09/2020	multi storeyed frames subjected to symmetric loads Problem 4
20	25/09/2020	multi storeyed frames subjected to symmetric loads Problem 5
21	28/09/2020	Unit-III : Castigliano's second theorem, principle of least work
22	29/09/2020	Analysis of redundant frames. (upto two degree redundancy) Problem 1
23	30/09/2020	Analysis of redundant frames. (upto two degree redundancy) Problem 2
24	05/10/2020	Analysis of redundant frames. (upto two degree redundancy) Problem 3
25	06/10/2020	Analysis of redundant frames. (upto two degree redundancy) Problem 4
26	07/10/2020	Analysis of redundant trusses (up to second degree of redundancy). Problem 1
27	09/10/2020	Analysis of redundant trusses (up to second degree of redundancy). Problem 2
28	12/10/2020	Analysis of redundant trusses (up to second degree of redundancy). Problem 3
29	13/10/2020	Unit-IV:1. Muller - Breslau's principle
30	14/10/2020	Influence line diagrams for continuous beams, upto two span with simple end supports
31	16/10/2020	Tension coefficient method & its applications to simple space trusses Problem 1
32	19/10/2020	Tension coefficient method & its applications to simple space trusses Problem 2

33	21/10/2020	Tension coefficient method & its applications to simple space trusses Problem 3
34	23/10/2020	Tension coefficient method & its applications to simple space trusses Problem 4
35	03/11/2020	Unit-V : Flexibility method, static redundancy, flexibility
36	04/11/2020	compatibility condition application to beams
37	05/11/2020	Introduction to plastic analysis of steel structure, shape factor, plastic section modulus
38	06/11/2020	upper and lower bound
39	23/11/2020	collapse loads for beams
40	24/11/2020	collapse loads for single bay
41	25/11/2020	collapse loads for single storey portals
42	27/11/2020	Unit-VI :Stiffness method
43	02/12/2020	kinematic redundancy
44	04/12/2020	stiffness coefficients, direct stiffness approach
	05/12/2020	application to continuous beams Problem 1
46	07/12/2020	application to continuous beams Problem 2
47	08/12/2020	application to continuous beams Problem 3
48	09/12/2020	single – bay Problem 1
49	14/12/2020	single – bay Problem 2
50	15/12/2020	single - storey portal frame Problem 1
51	16/12/2020	single - storey portal frame Problem 2
52	21/12/2020	single - storey portal frame Problem 3

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Execution Plan

Name of Faculty: Prof. P.S.Pajgade **Subject Code:7CE03** **Section: A**

Subject Name: Design of steel Structures **Semester: VII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	17/08/2020	Introduction of steel structures
2	18/08/2020	Introduction of steel structures
3	21/08/2020	Basic of Strength of material
4	24/08/2020	Basic of Strength of material
5	25/08/2020	Working stress method
6	28/08/2020	Ultimate load method
7	31/08/2020	Plastic analysis
8	02/09/2020	Design of connection
9	03/09/2020	Design of connection
10	04/09/2020	Design of connection
11	07/09/2020	Design of connection
12	08/09/2020	Design of connection
13	09/09/2020	Welded connection
14	11/09/2020	Welded connection
15	14/09/2020	Design of compression member
16	15/09/2020	Design of compression member
17	15/09/2020	Design of compression member
18	16/09/2020	Design of compression member

19	18/09/2020	Design of compression member
20	21/09/2020	Compound column
21	22/09/2020	Lacing design
22	22/09/2020	Design of tension member
23	23/09/2020	Design of tension member
24	25/09/2020	Design of tension member
25	28/09/2020	Design of tension member
26	29/09/2020	Calculation of wind load
27	30/09/2020	Calculation of wind load
28	05/10/2020	Numerical problem on wind load
29	06/10/2020	Numerical problem on wind load
30	07/10/2020	Numerical problem on wind load
31	09/10/2020	Numerical problem on wind load
32	13/10/2020	Design of slab base
33	14/10/2020	Numerical problem on slab base
34	16/10/2020	Gusseted base
35	19/10/2020	Gusseted base
36	20/10/2020	Gusseted base
37	21/10/2020	Gusseted base
38	23/10/2020	Gusseted base
39	03/11/2020	Gusseted base Subjected to moment (beyond syllabus
40	04/11/2020	Design of beam
41	06/11/2020	Design of beam
42	06/11/2020	Design of beam

43	23/11/2020	Design of beam
44	24/11/2020	Design of beam
45	25/11/2020	Design of beam
46	27/11/2020	Compound beam
47	02/12/2020	Compound beam
48	04/12/2020	Assignment and revision

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Execution Plan

Name of Faculty: Prof. H. P. Nistane **Subject Code: 7CE04** **Section: C**

Subject Name: Environmental Engineering –I **Semester: VII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	17/8/2020	Design Period & Factors affecting it
2	18/8/2020	Population Forecasting, Arithmetic method ,Geometric Increase Method
3	21/8/2020	Numerical On population Forecasting
4	24/8/2020	Sources: Surface Source & Ground Water sources
5	25/8/2020	Water quality: Impurities in water, their effects and significance
6	27/8/2020	Collection of water samples. Water analysis physical
7	28/8/2020	chemical and bacteriological water analysis
8	3/9/2020	Water Quality , Impurities in water
9	4/9/2020	Effects & Significance of water borne diseases
10	7/9/2020	Water Quality Std. WHO & IS for drinking water, Water
11	8/9/2020	Flow Diagram Of WTP
12	10/9/2020	Aeration , Types of aeration
13	11/9/2020	Trickling Bed Aeration, Sedimentation tank
14	14/9/2020	Sedimentation Tank - Circular Sedimentation tank
15	15/9/2020	Up & Down Baffle Tank (Plain Sedimentation tank)
16	17/9/2020	Sedimentation With Coagulation, Jar Test, Wet Feeding Devices

17	18/9/2020	Design Of sedimentation Tank,Problems On Sedimentation tank
18	21/9/2020	Mixing Devices: 1) Flash Mixer,Mixing Devices 2) Baffle wall mixing
19	22/9/2020	Expression for Settling velocity particles.
20	24/9/2020	Filtration , Theory of Filtration
21	25/9/2020	Rapid Sand filter . comparison between slow sand &
22	28/9/2020	Pressure Filter. problem on slow sand
23	29/9/2020	Other types of filters..1)roughing & double filtration
24	1/10/2020	Disinfection Introduction
25	5/10/2020	Methods of Disinfection
26	6/10/2020	Behavior of chlorine & types of chlorine
27	15/10/2020	Introduction to tertiary treatments like Softening
28	16/10/2020	Ion Exchange, Reverse Osmosis, Defloridation,
29	19/10/2020	Distribution system requirement , water supply system
30	20/10/2020	Pumping and combinedgravity and pumping,
31	22/10/2020	Dead end, Grid iron, Circular system and Radial system
32	24/10/2020	Equalising storage, Type of storage reservoirs, capacity

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Execution Plan

Name of Faculty: Prof. M.A.Banarase **Subject Code:7CE03** **Section: B**

Subject Name: Design of Steel Structures **Semester: VII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	17/08/2020	Introduction of steel structures
2	19/08/2020	Introduction of steel structures
3	20/08/2020	Basic of Strength of material
4	21/08/2020	Basic of Strength of material
5	24/08/2020	Working stress method
6	26/08/2020	Ultimate load method
7	37/08/2020	Plastic analysis
8	08/09/2020	Design of connection
9	02/09/2020	Design of connection
10	03/09/2020	Design of connection
11	04/09/2020	Design of connection
12	07/09/2020	Design of connection
13	09/09/2020	Welded connection
14	10/09/2020	Welded connection
15	11/09/2020	Design of compression member
16	14/09/2020	Design of compression member
17	16/09/2020	Design of compression member
18	17/09/2020	Design of compression member

19	18/09/2020	Design of compression member
20	21/09/2020	Compound column
21	23/09/2020	Lacing design
22	24/09/2020	Design of tension member
23	25/09/2020	Design of tension member
24	28/09/2020	Design of tension member
25	29/09/2020	Design of tension member
26	30/09/2020	Calculation of wind load
27	1/10/2020	Calculation of wind load
28	05/10/2020	Numerical problem on wind load
29	07/10/2020	Numerical problem on wind load
30	08/10/2020	Numerical problem on wind load
31	09/10/2020	Numerical problem on wind load
32	12/10/2020	Design of slab base
33	14/10/2020	Numerical problem on slab base
34	15/10/2020	Gusseted base
35	16/10/2020	Gusseted base
36	19/10/2020	Gusseted base
37	21/10/2020	Gusseted base
38	22/10/2020	Gusseted base
39	23/10/2020	Gusseted base Subjected to moment (beyond syllabus
40	26/10/2020	Design of beam
41	28/10/2020	Design of beam
42	29/10/2020	Design of beam
43	2/11/2020	Design of beam

44	4/11/2020	Design of beam
45	5/11/2020	Design of beam
46	6/11/2020	Compound beam
47	09/11/2020	Compound beam

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Execution Plan

Name of Faculty: Prof. H. P. Nistane **Subject Code: 7CE04** **Section: C**

Subject Name: Environmental Engineering –I **Semester: VII** **Year: Final Year**

Sr. No	Date	Topics Covered
1	17/8/2020	Design Period & Factors affecting it
2	18/8/2020	Population Forecasting, Arithmetic method ,Geometric Increase Method
3	21/8/2020	Numerical On population Forecasting
4	24/8/2020	Sources: Surface Source & Ground Water sources
5	25/8/2020	Water quality: Impurities in water, their effects and significance
6	27/8/2020	Collection of water samples. Water analysis physical
7	28/8/2020	chemical and bacteriological water analysis
8	3/9/2020	Water Quality , Impurities in water
9	4/9/2020	Effects & Significance of water borne diseases
10	7/9/2020	Water Quality Std. WHO & IS for drinking water, Water analysis
11	8/9/2020	Flow Diagram Of WTP
12	10/9/2020	Aeration , Types of aeration
13	11/9/2020	Trickling Bed Aeration, Sedimentation tank
14	14/9/2020	Sedimentation Tank - Circular Sedimentation tank
15	15/9/2020	Up & Down Baffle Tank (Plain Sedimentation tank)
16	17/9/2020	Sedimentation With Coagulation, Jar Test, Wet Feeding Devices
17	18/9/2020	Design Of sedimentation Tank,Problems On Sedimentation tank

18	21/9/2020	Mixing Devices: 1) Flash Mixer,Mixing Devices 2) Baffle wall mixing
19	22/9/2020	Expression for Settling velocity particles.
20	24/9/2020	Filtration , Theory of Filtration
21	25/9/2020	Rapid Sand filter . comparison between slow sand & rapid sand
22	28/9/2020	Pressure Filter. problem on slow sand
23	29/9/2020	Other types of filters..1)roughing & double filtration 2)Upflow filt
24	1/10/2020	Disinfection Introduction
25	5/10/2020	Methods of Disinfection
26	6/10/2020	Behavior of chlorine & types of chlorine
27	15/10/2020	Introduction to tertiary treatments like Softening
28	16/10/2020	Ion Exchange, Reverse Osmosis, Defloridation, Desalination
29	19/10/2020	Distribution system requirement , water supply system & layout
30	20/10/2020	Pumping and combinedgravity and pumping,
31	22/10/2020	Dead end, Grid iron, Circular system and Radial system
32	24/10/2020	Equalising storage, Type of storage reservoirs, capacity

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Execution Plan

Name of Faculty: Prof. S.A.Baitule **Subject Code:** **Section: A**

Subject Name: CTRCC **Semester: III** **Year: Second Year**

Sr. No	Date	Topics Covered
1	21/8/2020	Unit 1: Cement: Physical properties of Portland cement
2	24/8/2020	laboratory tests on cement
3	25/8/2020	types of cements
4	28/8/2020	Aggregate: Classification of aggregate
5	31/8/2020	physical properties, bulking and moisture content, specific gravity, bulk density.
6	04/09/2020	Unit 2: Workability of concrete, methods of measuring workability
7	07/09/2020	nominal mix, mixing, centering & formwork, placing
8	08/09/2020	compaction and curing of concrete
9	11/09/2020	Grades of concrete, properties of concrete, compressive, tensile, and shear strength
10	23/9/2020	modulus of elasticity, creep, shrinkage. Durability of concrete
11	25/9/2020	Unit 3: Basic elastic theory and concept of reinforced concrete

12	28/9/2020	types of reinforcement, Analysis of rectangular sections by working stress method
13	29/9/2020	design of singly reinforced beams
14	30/9/2020	one-way slabs (simply supported)
15	05/10/2020	lintels, and chajjas.
Sr. No	**Date**	**Topics Covered**
16	06/10/2020	Unit 4: Pozzolana and Admixtures: Plasticizer, retarders, accelerators,
17	07/10/2020	water proofing agents, mineral admixtures, IS code provisions
18	09/10/2020	Construction chemicals: concrete curing compounds, polymer bonding agent
19	12/10/2020	surface retarders, bond aid for plastering, protective and decorative coating.
20	13/10/2020	Unit 5: Special concrete: Ready Mix Concrete Light weight concrete, fibre reinforced concrete, Roller compacted concrete
21	14/10/2020	self-compacted concrete, high strength concrete, high performance concrete, high volume fly ash concrete
22	16/10/2020	Special concreting techniques: Guniting, grouting and shotcrete concrete, introduction & application of Ferrocement.
23	19/10/2020	Unit 6: Introduction of mix design

24	20/10/2020	IS Code method of mix design (IS: 10262 – 1982)
25	21/10/2020	IS Code method of mix design (IS: 10262 – 1982) Example
26	23/10/2020	Ambuja method

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Execution Plan

Name of Faculty: Prof. A.S.Deshmukh **Subject Code: 3CE03** **Section: B**

Subject Name: BCM&EG **Semester: III** **Year: Second Year**

Sr .No	Date	Topics Covered
1	17/08/2020	Introduction: Definition, types of buildings as per national building code, components of buildings and their functions,
2	20/08/2020	Types of structure ± load bearing & framed structures.
3	21/08/2020	Foundation: Definition and necessity, loads of foundation, Bearing Capacity soil, field methods of improving bearing capacity.
4	24/08/2020	Types of foundation - shallow foundation and Types of Shallow foundation.
5	27/08/2020	Causes of failure of foundations and precautions to be taken.
6	28/08/2020	Masonry: Classification of bricks, manufacturing of bricks, tests on bricks.
7	3/09/2020	bricks, properties of burnt bricks, fly ash bricks, ALC Blocks.
8	4/09/2020	Brick masonry construction - Technical terms, general principles, commonly used types of bonds such as stretcher, header, English bond and Flemish bond, their suitability.
9	7/09/2020	Formwork: Different types, their relative merits, demerits, period for removal of formwork for different members.
10	10/09/2020	Earthquake resistant bands in masonry- Types, location and application.

11	11/09/2020	Floors: Types of Floors ± Basement floor, ground floor and upper floors,
12	14/09/2020	Floor finishes ± Types of flooring material, different types of floor finishes, suitability,
13	17/09/2020	Method of construction, criteria for selection. Roofs- Flat, pitched roof, steel roof trusses- types and suitability,
14	18/09/2020	Arches, lintels ± Types and their Suitability. types of roof covering.
15	21/09/2020	Details of R.C.C. lintels.; chajja, precast lintels arches.
16	24/09/2020	Doors: Purpose, criteria for location, size of door, door frames.; its types, methods of fixing,
17	25/09/2020	Types of door shutters and their suitability,
18	28/09/2020	Windows -Purpose, criteria for location, no., sizes; shapes of Windows, types of windows; their suitability.
19	1/10/2020	Ventilators - Types and their suitability.
20	5/10/2020	Fixtures & fastening for doors and windows.
21	8/10/2020	Stairs- Function, technical terms, criteria for location, types of staircases, their suitability,
22	9/10/2020	principle of stair layout design.
23	12/10/2020	Plastering - Necessity, types, processes of different types of plastering, defects in plastered work.
24	15/10/2020	Scaffolding ± Purpose, types and suitability.
25	16/10/2020	Special Aspects of Construction ± Damp proofing ± causes of dampness, its effects, various methods of damp proofing.

26	22/10/2020	Fire proof construction -Fire protection requirements for a multistoried building.
27	23/10/2020	Sound proof Construction -Sound absorbents and their characteristic.
28	26/10/2020	Expansion & construction joints in building.
29	29/10/2020	Introduction - Different branches of Geology and importance of Geology in Civil Engineering.
30	2/11/2020	Folds, faults, joints in Geology.
31	5/11/2020	Geology. Geological studies related to site selection for dams and reservoirs.
32	6/11/2020	Petrology - rock cycle, rock Weathering.
33	19/11/2020	Soil formation, study of common rock types.
34	20/11/2020	Earthquake Engineering - earthquake waves, causes and effects.
35	23/11/2020	Magnitude and intensity of earthquake.
36	26/11/2020	Earthquake zones of India.

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Execution Plan

Name of Faculty: Prof. N.W.Chorey **Subject Code: 3CE03** **Section: A**

Subject Name: BCM&EG **Semester: III** **Year: Second Year**

Sr .No	Date	Topics Covered
1	18-8-2020	Introduction: Definition, types of buildings as per national building code, components of buildings and their functions.
2	19-8-2020	Types of structure ± load bearing & framed structures.
3	21-8-2020	Foundation: Definition and necessity, loads of foundation, Bearing Capacity soil, field methods of improving bearing capacity.
4	25-8-2020	Types of foundation - shallow foundation and Types of Shallow foundation.
5	26-8-2020	Causes of failure of foundations and precautions to be taken.
6	28-8-2020	Masonry: Classification of bricks, manufacturing of bricks, tests on bricks.
7	1-9-2020	bricks, properties of burnt bricks, fly ash bricks, ALC Blocks.
8	2-9-2020	Brick masonry construction - Technical terms, general principles, commonly used types of bonds such as stretcher, header, English bond and Flemish bond, their suitability.
9	04-9-2020	Formwork: Different types, their relative merits, demerits, period for removal of formwork for different members.
10	8-9-2020	Earthquake resistant bands in masonry- Types, location and application.
11	9-9-2020	Floors: Types of Floors ± Basement floor, ground floor and upper floors,

12	11-9-2020	floors, Floorfinishes ± Types of flooring material, different types of floor finishes, suitability,
13	15-9-2020	Method of construction, criteria for selection. Roofs- Flat, pitched roof, steel roof trusses- types and suitability,
14	16-9-2020	Arches, lintels ± Types and their Suitability. types of roof covering.
15	18-9-2020	Details of R.C.C. lintels.; chajja, precast lintels arches.
16	22-9-2020	Doors: Purpose, criteria for location, size of door, door frames.; its types, methods of fixing,
17	23-9-2020	Types of door shutters and their suitability,
18	25-9-2020	Windows -Purpose, criteria for location, no., sizes; shapes of Windows, types of windows; their suitability.
19	29-9-2020	Ventilators - Types and their suitability.
20	30-9-2020	Fixtures & fastening for doors and windows.
21	6-10-2020	Stairs- Function, technical terms, criteria for location, types of staircases, their suitability,
22	7-10-2020	principle of stair layout design.
23	9-10-2020	Plastering - Necessity, types, processes of different types of plastering, defects in plastered work.
24	13-10-2020	Scaffolding ± Purpose, types and suitability.
25	14-10-2020	Special Aspects of Construction ± Damp proofing ± causes of dampness, its effects, various methods of damp proofing.
26	16-10-2020	Fire proof construction -Fire protection requirements for a multistoried building.

27	20-10-2020	Sound proof Construction -Sound absorbents and their characteristic.
28	21-10-2020	Expansion & construction joints in building.
29	23-10-2020	Introduction - Different branches of Geology and importance of Geology in Civil Engineering.
30	27-10-2020	Folds, faults, joints in Geology.
31	3-11-2020	Geology. Geological studies related to site selection for dams and reservoirs.
32	4-11-2020	Petrology - rock cycle, rock Weathering.
33	6-11-2020	Soil formation, study of common rock types.
34	10-11-2020	Earthquake Engineering - earthquake waves, causes and effects.
35	11-11-2020	Magnitude and intensity of earthquake.
36	26-11-2020	Earthquake zones of India.

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Name of Faculty: Prof. M.S.Mahalle **Subject Code:** **Section: A**

Subject Name: TE 1 **Semester: III** **Year: Second Year**

SR NO	DATE	TOPIC COVERED
1		**Unit-I Highway: introction to all modes of transportation**
2	18.08.20	Road Transport characteristics
3	20.08.20	classification of Roads
4	21.08.20	Road Patterns
5	25.08.20	Alignment principles
6	27.08.20	Survey for highway
7	28.08.20	Survey for highway
8		**Unit-II Geometric Design**
9	03.09.20	Cross sectional elements
10	4.09.20	Right of way, Camber,Gradient
11	8.09.20	Typical Highway cross section, PIEV Theory
12	10.09.20	stopping sight distance,overtaking sight distance
13	11.09.20	Horizontal alignment, curves,
14	15.09.20	superelevation
15		**Unit-III Pavement Design and Traffic Engineering**
16	18.09.20	Components of Flexible and Rigid pavement, Design factor
17	22.09.20	Traffic Characteristics, Traffic Studies
18	24.09.20	Construction and Maintenance – WBM Surface dressing
19	25.09.20	bituminous roads and construction procedure
20	29.09.20	Road parking system,
21	1.10.20	traffic control devices and 3 E's of traffic
22	6.10.20	**Unit-IV:Railway:** Railway transportation
23	8.10.20	track sections, embankment & cutting
24	9.10.20	Points and crossing Left &right hand turnouts.
25	13.10.20	Objects, Permanent way, gauges, coning of wheels
26	15.10.20	components of permanent way, Sleeper density,
27	16.10.20	Rail fixtures & fastening
28	22.10.20	Rail types and functions.
29	23.10.20	**Unit-V: Airport:** Agencies controlling national & international aviation
30	26.10.20	various surveys to be conducted, airport site selection,
31	29.10.20	Aero plane component parts, Aircraft characteristics
32	3.11.20	Airport obstructions: Zoning laws

33	5.11.20	wind rose diagram.
34	6.11.20	Basic runway length and corrections
35	10.11.20	Apron layout, Aircraft parking & parking system
36	12.11.20	**Unit-VI: Tunnel and Bridges : Tunnels- necessity, types, tunnel alignment**
37	13.11.20	Size and shape of tunnels, and Tunnel lining.
38	17.11.20	Tunnel drainage, ventilation & lighting of tunnels
39	19.11.20	Bridge Engineering-Components, classification and identification
40	20.11.20	data collection, site selection, economic span,
41	24.11.20	Estimation of flood discharge, water way, scour depth, depth of foundation, Afflux, clearance and free board,
42	26.11.20	different structural form – culverts, types of foundation, abutments.
43	27.11.20	piers and wing wall.

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Execution Plan

Name of Faculty: Prof. RIYAZ SAMEER SHAH **Subject Code: 3CE02**

Section: B

Subject Name: STRENGTH OF MATERIALS **Semester: III Year: Second Year**

Sr. No	Date	Topics Covered
1	20/08/2020	Stress, Strain, Elastic Limit, Hook's law, Poisson Ratio
2	21/08/2020	Modulus of Rigidity, Concept of Stress strain diagram and Factor of safety,Relation between modulus of elasticity and modulus of rigidity, Concept of Composite and Compound section
3	22/08/2020	Problems on Uniform Compound Section
4	24/08/2020	Concept of Extension of Tapering Rod and its problem
5	25/08/2020	Problems on Composite Section , Problems on Volumetric stress and strain
6	26/08/2020	Bulk Modulus, Volumetric stress and strain, Relation between modulus of elasticity and bulk modulus
7	01/09/2020	Concept of Thermal stress [Temperature Stresses], Problems of Compound section of Thermal Stresses.
8	02/09/2020	Problems on Composite Section of Thermal stresses unit hydr
9	03/09/2020	Beams, Loading and Support conditions
10	08/09/2020	Bending Moment, Shear Force and Axial Force Diagram
11	11/09/2020	Relation between shear force, bending moment and loading intensity
12		Problems on SFD and BMD – Simple support beams
13	14/09/2020	Problems on SFD and BMD – Simple support beams
14	15/09/2020	Problems on SFD and BMD – Simple support beams
15	16/09/2020	Problems on SFD and BMD – Cantilever beams
16	18/09/2020	Problems on SFD and BMD – Overhang beams
17	19/09/2020	Stress in Beams: Bending – Theory of simple bending, section modulus, moment of resistance

18	21/09/2020	Stress in Beams: Bending – Bending stresses in solid, hollow and built up section
19	22/09/2020	Torsion: Theory of torsion and assumption
20	23/09/2020	Torsion: Derivations of torsion equation
21	25/09/2020	Torsion: Base on Derivations of torsion equation
22	26/09/2020	Torsion: Polar modulus, Stress in solid and hallow circular shaft
23	28/09/2020	Torsion: Power transmitted by shaft channel
24	03/10/2020	Torsion: Closed coiled helical spring with axial load
25	05/10/2020	Torsion: Closed coiled helical spring with axial load
26	06/10/2020	Thin cylinder subjected to internal pressure
27	07/10/2020	Thick cylinder subjected to internal pressure
28	10/10/2020	Principle stresses: Biaxial stress system
29	12/10/2020	Principle Planes
30	13/10/2020	Mohr's circle of stresses
31	14/10/2020	Stress in Beams: Strain energy under uniaxial tension and compression
32	17/10/2020	Stress in Beams: Impact loads and instantaneous stresses.
33	21/10/2020	Deflection of beams
34	22/10/2020	Deflection of beams for statically determinate
35	23/10/2020	Deflection of beams for statically determinate for overhang beam

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Execution Plan

Name of Faculty: Prof. A.S.Deshmukh **Subject Code: 5CE01** **Section: A**

Subject Name: BPCAD **Semester: V** **Year: Third Year**

Sr. No	Date	Topics Covered
1	19/08/2020	**Unit 1:** Introduction: Importance of building drawing for Civil Engineering.
2	20/08/2020	Method of drawing – Selection of scales for various drawings
3	26/08/2020	Abbreviations & graphical symbols used in Civil Engineering Drawing
4	27/08/2020	Combined first angle & third angle method of projection.
5	2/09/2020	Layout of sheet for civil engineering drawing,
6	3/09/2020	Requirements of drawing as per plan sanctioning authorities.
7	9/09/2020	**Unit 2:** Concept of line plan & working drawings of the building.
8	10/09/2020	Developing working drawings of the building from the given line plan
9	16/09/2020	Necessity and use of working drawing.
10	17/09/2020	Concept of site plan, block plan and layout plan. Importance and detail.
11	23/09/2020	Developing working drawing and foundation plan for load bearing and

12	24/09/2020	**Unit 3:** Planning of residential building. Introduction, general principles.
13	1/10/2020	Planning of residential building. Introduction, general principles.
14	7/10/2020	Temperature Climate and design consideration. Orientation of buildings
15	8/10/2020	Requirement of the owner, alternatives of building types.
16	14/10/2020	Common utilities such as parking, security, water supply, sanitation
17	15/10/2020	Criteria for earthquake resistant planning of building.
18	21/10/2020	Criteria for earthquake resistant planning of building.
19	22/10/2020	**Unit 4:** Concept of line plan, working drawing and submission drawing.
20	28/10/2020	Concept of site plan, block plan and layout plan
21	29/10/2020	Concept of foundation plan and use.
22	4/11/2020	Types of public building and their requirements, planning of public.
23	5/11/2020	Preparing line plans of different public buildings such as schools, post office, etc.
24	18/11/2020	Free-hand sketch
25	19/11/2020	Developing working and submission drawing of load bearing and frame structural building.
26	25/11/2020	Developing working and submission drawing of load bearing and frame structural building.

27	26/10/2020	Developing working and submission drawing of load bearing and frame structural building.

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Execution Plan

Name of Faculty: Prof. S.A.Deshmukh **Subject Code: Section: C**

Subject Name: RCC- II **Semester: V (ODD)** **Year: Third Year**

Sr .No	Date	Topics Covered
1	17/08/2020	**UNIT :- 1** INTRODUCTUION OF RCC II
2	18/08/2020	**UNIT :- 1** INTRODUCTUION OF RCC II
3	20/08/2020	**UNIT :- 1** INTRODUCTUION OF RCC II
4	21/08/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH RIGID BASE
5	24/08/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH RIGID BASE
6	25/08/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH RIGID BASE
7	27/08/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH RIGID BASE
8	28/08/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH FLEXILE BASE
9	01/09/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH FLEXILE BASE
10	03/09/2020	**UNIT :- 1** DESIGN OF CIRCULAR WATER TANK WITH FLEXILE BASE
11	04/09/2020	**UNIT :- 2** INTRODUCTION TO LIMIT STATE METHOD
12	07/09/2020	**UNIT :- 2** DESIGN SINGLY REINFORCED BEAM
13	08/09/2020	**UNIT :- 2** DESIGN SINGLY REINFORCED BEAM

14	10/09/2020	**UNIT :- 2** DESIGN DOUBLY REINFORCED BEAM
15	11/09/2020	**UNIT :- 2** DESIGN DOUBLY REINFORCED BEAM
16	14/09/2020	**UNIT :- 4** DESIGN OF T - BEAM
17	15/09/2020	**UNIT :- 4** DESIGN OF T - BEAM
18	17/09/2020	**UNIT :- 4** DESIGN OF T - BEAM
19	18/09/2020	**UNIT :- 4** DESIGN OF T - BEAM ,flange beam
20	21/09/2020	**UNIT :- 4** DESIGN OF T - BEAM ,flange beam
21	22/09/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
22	24/09/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
23	25/09/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
24	28/09/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
25	29/09/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
26	5/10/2020	**UNIT :- 2** DESIGN OF ONE WAY CONTINIOUS SLAB
27	6/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB
28	8/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB
29	9/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB
30	12/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB

31	13/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB
32	15/10/2020	**UNIT :- 3** DESIGN OF TWO WAY SOLID SLAB
33	16/10/2020	**UNIT :- 5** DESIGN OF ISOLATED FOOTING (SQUARE)
34	19/10/2020	**UNIT :- 5**DESIGN OF ISOLATED FOOTING (SQUARE)2
35	20/10/2020	**UNIT :- 5** DESIGN OF ISOLATED FOOTING (SQUARE)3
36	22/10/2020	**UNIT :- 5** DESIGN OF ISOLATED FOOTING (RECTANGLE)
37	23/10/2020	**UNIT :- 5** DESIGN OF ISOLATED FOOTING (RECTANGLE)2
38	26/10/2020	**UNIT :- 5** DESIGN OF ISOLATED FOOTING (RECTANGLE)3
39	27/10/2020	**UNIT :- 5** DESIGN OF COLOUMN BY UNIAXAILLY BENDING
40	2/11/2020	**UNIT :- 5** DESIGN OF COLOUMN BY UNIAXAILLY BENDING 2
41	3/11/2020	**UNIT :- 5** DESIGN OF COLOUMN BY AXIAL LOAD,EARTHQUAKE DETAILING
42	5/11/2020	**UNIT :- 6** DESIGN OF COLOUMN BY AXIAL LOAD,EARTHQUAKE DETAILING 2
43	6/11/2020	**UNIT :- 6** DETAILING OF EARTHQUAKE RESISTANCE STRUCTURE
44	17/11/2020	**UNIT :- 6** DETAILING OF EARTHQUAKE RESISTANCE EARTHQUAKE STRUCTURE,DUCTILE DETAIL
45	19/11/2020	**UNIT :- 6** DETAILING OF EARTHQUAKE RESISTANCE STRUCTURE 2
46	20/11/2020	**UNIT :- 6** DESIGN OF GRID SLAB
47	26/11/2020	**UNIT :- 6** DESIGN OF GRID SLAB

48	27/11/2020	**UNIT :- 6** DESIGN OF GRID SLAB
49	1/12/2020	**UNIT :- 6** DESIGN OF GRID SLAB

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Execution Plan

Name of Faculty: Prof. P.S.Deshmukh **Subject Code: 5CE01** **Section: C**

Subject Name: BPCAD **Semester: V** **Year: Second Year**

Sr. No	Date	Topics Covered
1	17/08/2020	**Unit 1:** Introduction: Importance of building drawing for Civil Engineering.
2	18/08/2020	Method of drawing – Selection of scales for various drawings
3	19/08/2020	Abbreviations & graphical symbols used in Civil Engineering Drawing
4	24/08/2020	Combined first angle & third angle method of projection.
5	25/08/2020	Layout of sheet for civil engineering drawing,
6	26/08/2020	Requirements of drawing as per plan sanctioning authorities.
7	31/08/2020	**Unit 2:** Concept of line plan & working drawings of the building.
8	01/09/2020	Developing working drawings of the building from the given line plan
9	02/09/2020	Necessity and use of working drawing.
10	07/09/2020	Concept of site plan, block plan and layout plan. Importance and
11	08/09/2020	Developing working drawing and foundation plan for load
12	09/09/2020	**Unit 3:** Planning of residential building. Introduction, general principles.
13	15/09/2020	Planning of residential building. Introduction, general principles.
14	21/09/2020	Temperature Climate and design consideration. Orientation of buildings

15	22/09/2020	Requirement of the owner, alternatives of building types.
16	23/09/2020	Common utilities such as parking, security, water supply, sanitation
17	28/09/2020	Criteria for earthquake resistant planning of building.
18	29/09/2020	Criteria for earthquake resistant planning of building.
19	05/10/2020	**Unit 4:** Concept of line plan, working drawing and submission drawing.
20	06/10/2020	Concept of site plan, block plan and layout plan
21	07/10/2020	Concept of foundation plan and use.
22	19/10/2020	Types of public building and their requirements, planning of public.
23	20/10/2020	Preparing line plans of different public buildings suchas schools,
24	21/10/2020	Free-hand sketch
25	2/11/2020	Developing working and submission drawing of load bearing and frame structural building.
26	3/10/2020	Developing working and submission drawing of load bearing and frame structural building.
27	4/10/2020	Developing working and submission drawing of load bearing and frame structural building.

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Execution Plan

Name of Faculty: Prof. Ms. S. V. Kalbande **Subject Code: 8KS01**

Subject Name: AI **Semester: VIII** **Year: Final Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-Jan-2021	**Unit 1**-Introduction: Definition of AI, AI Techniques,		
2	19-Jan-2021	Tic-Tac-Toe, Pattern Recognition		
3	20-Jan-2021	Level of the model, Criteria for Success,		
4	21-Jan-2021	Problems and Problem Spaces, Defining the Problems		
5	25-Jan-2021	Production Systems, Control Strategies,		
6	27-Jan-2021	Heuristic Search, Problem Characteristics,		
7	28-Jan-2021	Decomposition of Problems, Solution steps		
8	01-Feb-2021	Predictability, Absolute & Relative Solutions		
9	02-Feb-2021	**Unit II:** Basic Problem Solving methods: Reasoning,		
10	03-Feb-2021	Problem trees and graphs		
11	04-Feb-2021	Knowledge Representation		
12	08-Feb-2021	Matching indexing with variables		
13	09-Feb-2021	Heuristic Functions, Weak Methods		
14	15-Feb-2021	Problem reduction		
15	16-Feb-2021	Constraints Satisfaction, Means-ends analysis		
16	17-Feb-2021	Analysis of Search Algorithms.		
17	18-Feb-2021	**Unit III:** Games Playing, Minimax Search Procedure		
18	22-Feb-2021	Adding alpha beta cutoffs		
19	23-Feb-2021	Additional refinements, waiting for quiescence		
20	24-Feb-2021	Secondary Search, Using Book moves limitation.		
21	25-Feb-2021	Problems on Minimax Algorithm		
22	01-Mar-2021	Problems on Alpha beta pruning		
23	02-Mar-2021	Revision on Algorithms and Problems		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	03-Mar-2021	**Unit IV :** Knowledge Representation using Predicate Logic		
25	04-Mar-2021	Representing simple facts in logic		
26	08-Mar-2021	Augmenting the representation		
27	09-Mar-2021	Resolution,conversion to clause form		
28	10-Mar-2021	Resolution in Propositional Logic		
29	15-Apr-2021	Question Answering and Natural Deduction		
30	19-Apr-2021	Unification Algorithms		
31	20-Apr-2021	**Unit V:**Structural representation of knowledge: Some common known structures		
32	21-Apr-2021	choosing the level of representation		
33	22-Apr-2021	finding the right structure as needed		
34	28-Apr-2021	declarative representation		
35	29-Apr-2021	semantic nets		
36	03-May-2021	Conceptual Dependency		
37	04-May-2021	Frames, Scripts,		
38	05-May-2021	Semantic- Semantic, Spectrum and procedural representation.		
39	06-May-2021	**Unit VI:** Natural Language Understanding		
40	10-May-2021	Concepts of Understanding, Keyword matching		
41	11-May-2021	Syntactic and Semantic analysis		
42	12-May-2021	Understanding single and multiple sentences		
43	17-May-2021	Using Focus, Goal Structures		
44	18-May-2021	Schemes and Scripts in Understanding		
45	19-May-2021	Dialogue Understanding		
46	20-May-2021	Resolution in Propositional Logic and Predicate Logic examples		
47	24-May-2021	alpha beta cutoffs examples		
48	25-May-2021	Minimax examples		
49	27-May-2021	Water jug problems		

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Execution Plan

Name of Faculty: Dr. S. R. Gupta **Subject Code: 8KS02**

Subject Name: Embedded Systems **Semester: VIII** **Year: Final Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-Jan-2021	**Unit I:** Introduction to Embedded System.		
2	20-Jan-2021	Embedded Systems Vs General Computing Systems.		
3	21-Jan-2021	Embedded System: History, major application areas of ES.		
4	25-Jan-2021	Classification of Embedded Systems.		
5	27-Jan-2021	Purpose of Embedded Systems.		
6	28-Jan-2021	Components of Embedded systems.		
7	01-Feb-2021	General Purpose and Domain Specific Processors.		
8	02-Feb-2021	Memories for Embedded Systems.		
9	03-Feb-2021	**Unit-II:** Components of ES: Sensors & Actuators.		
10	04-Feb-2021	Components of ES: Other supporting I/O Subsystems		
11	08-Feb-2021	Communication Interface: Onboard		
12	09-Feb-2021	Communication Interface: External / Product Level		
13	15-Feb-2021	Embedded Firmware		
14	16-Feb-2021	Characteristics of Embedded System		
15	17-Feb-2021	Quality Attributes of Embedded System		
16	18-Feb-2021	Embedded Systems Examples: Washing machine.		
17	22-Feb-2021	Embedded Systems Examples: Automotive application		
18	23-Feb-2021	**Unit-III:** Introduction to 8051 Microcontroller: Overview		
19	24-Feb-2021	8051 Architecture and Pin Diagram		
20	25-Feb-2021	8051 Memory Organization		
21	01-Mar-2021	Registers, Oscillator Unit		
22	02-Mar-2021	8051 Ports		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
23	03-Mar-2021	8051 Interrupt System		
24	04-Mar-2021	8051 Timer units		
25	08-Mar-2021	The Serial Port, 8051 Power Saving Modes		
26	09-Mar-2021	**UNIT-IV:** Programming the 8051 Microcontroller: 8051 Instruction Set: Data transfer, Arithmetic instructions		
27	10-Mar-2021	8051 Instruction Set: Data transfer instructions, Arithmetic instructions.		
28	15-Apr-2021	8051 Instruction Set: Logical instructions, Boolean instructions.		
29	19-Apr-2021	8051 Instruction Set: Boolean instructions, and Program Control Transfer instructions.		
30	20-Apr-2021	Assembly Language based Embedded Firmware development.		
31	21-Apr-2021	Assembly Language based Embedded Firmware development: 8051based Examples.		
32	22-Apr-2021	**UNIT-V:** Programming in Embedded C: Review of various constructs in C.		
33	28-Apr-2021	Programming in Embedded C: Constant declarations		
34	29-Apr-2021	Programming in Embedded C: Structure and Union definition and difference.		
35	03-May-2021	Programming in Embedded C: ‘volatile’ type qualifier		
36	04-May-2021	Programming in Embedded C: Delay generation and Infinite loops in Embedded C. Coding Interrupt Service Routines.		
37	05-May-2021	Programming in Embedded C: Recursive and Reentrant Functions, Dynamic memory allocation.		
38	06-May-2021	**UNIT-VI:** VxWorks Real Time Operating System (RTOS): Characteristics, Real Time Kernel		
39	10-May-2021	Hard/Soft Real time Systems and RTOS.		
40	11-May-2021	VxWorks Task Creation, Management.		
41	12-May-2021	VxWorks Scheduling and VxWorks Kernel Services.		
42	17-May-2021	VxWorks Inter Task Communication.		
43	18-May-2021	VxWorks Task Synchronization and Mutual Exclusion.		
44	19-May-2021	Interrupt Handling, Watchdog for task Execution monitoring, Timing and Reference in VxWorks.		
45	20-May-2021	Review on VxWorks RTOS and its characteristics.		
46	24-May-2021	Revision on Embedded System		
47	25-May-2021	Revision on Embedded System		
48	27-May-2021	Revision on Embedded System		

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Execution Plan

Name of Faculty: Prof. T. P. Adhau **Subject Code: 8KS03**

Subject Name: SE **Semester: VIII** **Year: Final Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/21	**Unit 1:** Introduction, Evolving role of Software.		
2	19/01/21	Software Crisis, Software myths.		
3	20/01/21	Software engineering.		
4	21/01/21	Software process and Process model: Linear sequential, Prototyping.		
5	25/01/21	RAD, Evolutionary Product & process.		
6	27/01/21	Project Management concept: People, Product		
7	28/01/21	Process, Project and W5HH Principle		
8	01/02/21	**Unit 2:** Measures, Metrics & Indicators.		
9	02/02/21	Metrics in process & project domains		
10	03/02/21	Software Measurement, Metrics for software quality		
11	04/02/21	small organization, Software projects Planning: Scope, resources,		
12	08/02/21	Estimation, decomposition technique, Tools.		
13	09/02/21	Software risks : identification, risk projection		
14	10/02/21	Risk refinement & RMMM plan.		
15	11/02/21	**Unit 3:** Project Scheduling: Concepts. People's Efforts.		
16	15/02/21	Task set, Task network.		
17	16/02/21	Scheduling: Timeline chart, tracking of project		
18	22/02/21	EV analysis, Projecta Plan		
19	23/02/21	Software quality concepts, Software Review		
20	01/03/21	Formal Technical Review, Guidelines for FTR		
21	02/03/21	SQA, Elements of SQA,SQA plan, SQA Task		
22	03/03/21	SQA Goal, Attribute and metrics,		
23	04/03/21	Statistical SQA, Six Sigma, S/W Reliability		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	08/03/21	Availability and Safety, ISO Standards, SQA Plan		
25	09/03/21	**Unit 4:** System Engineering, System Engineering Process,		
26	10/03/21	System Engineering Hierarchy, System modeling		
27	15-Apr-2021	Business Process & Product engineering: Overviews		
28	19-Apr-2021	Requirement engineering		
29	20-Apr-2021	System modeling. Requirement analysis		
30	21-Apr-2021	Analysis principles. Software prototyping.		
31	28-Apr-2021	Specification. Design Process		
32	29-Apr-2021	Design Principles & Concepts.		
33	03-May-2021	Effective modular design		
34	04-May-2021	**Unit 5:** Software architecture, Data Design		
35	05-May-2021	Architectural styles, Requirement mapping.		
36	06-May-2021	Transform & Transaction mappings. User Interface		
37	07-May-2021	Design : Golden Rule. UTD,		
38	10-May-2021	Task analysis & modeling, ID activities		
39	11-May-2021	Tools, design evaluation		
40	12-May-2021	Component level design : Structure programming, Comparison of design notation.		
41	13-May-2021	**Unit 6**: Software testing fundamentals; test case design		
42	14-May-2021	Whitebox testing. Basis path, control structure		
43	17-May-2021	Blackbox-Testing, & for specialized environments		
44	18-May-2021	Strategic approach to S/W testing		
45	19-May-2021	Unit testing, integration testing		
46	20-May-2021	validation testing, system testing		
47	21-May-2021	Debugging		
48	22-May-2021	Technical metrics for software		

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Execution Plan

Name of Faculty: Prof. S. V. Deshmukh **Subject Code: 8KS04**

Subject Name: NS **Semester: VIII** **Year: Final Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-Jan-2021	Introduction of network security : **Unit VI**: Introduction of Malicious Software: Viruses and Related Threats, Virus Countermeasures.		
2	19-Jan-2021	Types of Viruses, Distributed Denial of Service Attacks.		
3	20-Jan-2021	Firewalls: Introduction of Firewall, Firewall Design Principles,		
4	21-Jan-2021	Types of Firewall		
5	25-Jan-2021	Trusted Systems, Common Criteria for Information Technology Security Evaluation		
6	27-Jan-2021	**Unit V**: Introduction of Intruders		
7	28-Jan-2021	Intrusion Detection, Password Management.		
8	01-Feb-2021	**Unit I**: Introduction: Security Trends.		
9	02-Feb-2021	The OSI Security Architecture, Security Attacks.		
10	03-Feb-2021	Security Services, Security Mechanisms.		
11	04-Feb-2021	A Model for Internetwork Security, Internet Standards and the Internet Society**.**		
12	08-Feb-2021	Symmetric Encryption and Message Confidentiality: Symmetric Encryption Principles,		
13	09-Feb-2021	Symmetric Block Encryption Algorithms,		
14	15-Feb-2021	DES Algorithm		
15	16-Feb-2021	AES Algorithm		
16	17-Feb-2021	Stream Ciphers and RC4.		
17	18-Feb-2021	Cipher Block Modes of Operation.		
18	22-Feb-2021	Location of Encryption Devices.		
19	23-Feb-2021	Introduction Key Distribution. Diffie-Hellman Algorithm		
20	24-Feb-2021	RSA Algorithm ,Euclidean Algorithm		
21	25-Feb-2021	Examples of RSA Algorithm ,Euclidean Algorithm		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
22	1-Mar-2021	**Unit II:** Public-Key Cryptography and Message Authentication: Approaches to Message Authentication		
23	2-Mar-2021	Secure Hash Functions and HMAC		
24	3-Mar-2021	Secure Hash Algorithms, Working of SHA 512		
25	4-Mar-2021	Hash-based Message Authentication Code (HMAC)		
26	8-Mar-2021	Public Key Cryptography Algorithms		
27	9-Mar-2021	Digital Signatures		
28	10-Mar-2021	Key Management		
29	15-Apr-2021	**Unit III:** Authentication Applications: Kerberos		
30	19-Apr-2021	X.509 Authentication Service, X.509 Certificate		
31	20-Apr-2021	Electronic Mail Security: Pretty Good Privacy (PGP)		
32	22-Apr-2021	Secure/Multipurpose Internet Mail Extensions		
33	28-Apr-2021	**Unit IV:IP Security:** IP Security Overview, IP Security Architecture		
34	29-Apr-2021	Authentication Header, Encapsulating Security Payload		
35	3-May-2021	Combining Security Associations		
36	4-May-2021	**Web Security:** Web Security Considerations		
37	5-May-2021	Secure Socket Layer(SSL)		
38	6-May-2021	Secure Electronic Transaction (SET).		
39	12-May-2021	Secure Electronic Transaction, Dual Signature		
40	17-May-2021	**Unit V : Network Management Security**: Basic Concepts of SNMP		
41	18-May-2021	SNMPv1 Community Facility		
42	19-May-2021	SNMPv3		
43	20-May-2021	**Revision** of Feistel cipher and DES Algorithm		
44	24-May-2021	**Revision** of Secure Hash Algorithms, Working of SHA 512 and solve **MCQs on Unit 4**		
45	25-May-2021	Solve **MCQs on Unit 5**		

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Name of Faculty: Dr. M. A. Pund **Subject Code: 8KS01**

Subject Name: Artificial Intelligence **Semester: VIII** **Year: Final Year**

Section: C

Sr.No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18 /01/ 2021	**Unit-1** :Introduction: Definition of AI & AI Techniques		
2	19/01/ 2021	Tic-Tac-Toe Game Playing Strategies ,Approach-1		
3	20 /01/ 2021	Tic-Tac-Toe Game Playing Strategies- Approach-2, Approach-3		
4	21/01/ 2021	Pattern Recognition.		
5	25/01/ 2021	Pattern Recognition.		
6	27/01/ 2021	Level of the model, Critical for Success		
7	28/01/ 2021	Problems and Problem Specifications: Defining the Problems		
8	01/02/2021	Production Systems, Control Strategies, Water Jug Problem		
9	02/02/2021	Heuristic Search		
10	03/02/2021	Problem Characteristics		
11	04/02/2021	**Unit-2** : Basic Problem Solving methods: Introduction		
12	08/02/2021	Reasoning, Problem trees and graphs,		
13	09/02/2021	Knowledge Representation,		
14	09/02/2021	Matching indexing with variables.		
15	22/02/2021	Heuristic Functions and Search methods		
16	23/02/2021	Weak Methods Hill Climbing, A* and AO* Algorithms		
17	24/02/2021	Problem Reduction, Constraints Satisfaction, Means-end analysis		
18	25/02/2021	Analysis of Search Algorithms.		

Sr.No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
19	1/03/2021	**Unit-3** : Games Playing, Tic-Tac-Toe Game analysis		
20	2/03/2021	Minimax For Search Tree and Graphs		
21	3/03/2021	Minimax Search Procedure		
22	4/03/2021	Adding alpha beta cutoffs in the Search Tree		
23	8/03/2021	Additional refinements Waiting for quiescence,		
24	9/03/202	Secondary Search, Horizon Effect		
25	10/03/2021	Using Book moves limitations		
26	15/04/2021	**Unit-4** : Introduction to Knowledge Representation		
27	19/04/2021	Representing Simple Facts in logic		
28	20/04/2021	Preposition Logical Equivalence		
29	21/04/2021	Inference mechanism in preposition and predicate logic		
30	22/04/2021	Representing English sentence into WFF		
31	26/04/2021	Converting *wff expression* into CNF		
32	28/04/2021	Resolution in Predicate logic		
33	29/04/2021	Matching Liberals by Substitution and Unification Process, Algorithm		
34	3/05/2021	**Unit-5** : Structural representation of knowledge: Some common Structures		
35	4/05/2021	choosing the level of representation, finding the right structure as needed		
36	5/05/2021	Declarative representation,		
37	6/05/2021	Semantic nets & representing knowledge		
38	11/05/2021	Conceptual Dependency,		
39	12/05/2021	Frames & Scripts		
40	17/05/2021	Semantic, Spectrum and procedural representation.		
41	18/05/2021	**Unit-6** : Natural Language Understanding & Learning		
42	20/05/2021	Concepts of Understanding & Learning Agents		
43	24/05/2021	Bysein Network, Syntactic and Semantic analysis,		
44	25/05/2021	Understanding single and multiple sentences, Using Focus,		
45	27/05/2021	Goal Structures, Schemes and Scripts in Understanding		

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Name of Faculty: Dr. P. K. Agarwal **Subject Code: 8KS02**

Subject Name: ES **Semester: VIII** **Year: Final Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
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Name of Faculty: Dr. Ms. S. W. Ahmad **Subject Code: 8KS03**

Subject Name: SE **Semester: VIII** **Year: Final Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/1/21	Introduction to software Engineering		
2	19/1/21	Evolving role of Software, Software crises & myths.		
3	20/1/21	Software Characteristic ,Software Engineering as layered Architecture		
4	21/1/21	Software engineering, Software process & process models ,Linear sequential		
5	25/2/21	Prototyping, RAD, Evolutionary Product & Process.		
6	27/2/21	Project management concepts: People, Product, Process, Project		
7	28/2/21	W5HH Principle		
8	01/2/21	critical practice		
9	02/2/21	Measures, Metrics & Indicators. Metrics in process & project domains		
10	3/2/21	software measurement		
11	4/2/21	Metrics for software quality		
12	8/2/21	small organization		
13	09/2/21	Software projects Planning		
14	10/2/21	Scope, resources, estimation, decomposition technique, Tools		
15	11/2/21	Software risks : identification, risk projection		
16	15/2/21	Refinement & RMMM plan.		
17	16/2/21	Project Scheduling: Concepts		
18	17/2/21	People Efforts, Task set,		
19	18/2/21	Task network. Scheduling. EV analysis		
20	22/2/21	Project Plan, Software quality concepts		
21	23/2/21	SQAssurance, Software reviews, technical reviews, s Version control		
22	24/2/21	SCMstandard of Software quality		
23	25/2/21	System engineering : Hierarchy, Business Process & Product engineering		
24	01/3/21	Overviews. Requirement Engineering,		
25	02/3/21	System modeling. Requirement analysis.		
26	03/3/21	Analysis principles. Software prototyping		
27	04/3/21	Specification. Design Process. Design Principles & Concepts.		
28	08/3/21	Effective modular design.Design model & documentation.		
29	09/3/21	Design model & documentation.		
30	10/3/21	Software architecture, Data Design, Architectural styles,		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
31	11/3/21	Requirement mapping, Transform mapping		
32	15/3/21	Transform, Transaction mappings		
33	16/3/21	User-interface design Golden Rule		
34	17/3/21	Task analysis & modeling		
35	18/3/21	ID activities of Task modeling		
36	22/3/21	Tools design		
37	23/3/21	design evaluation		
38	24/3/21	Component level design		
39	25/3/21	Structure programming		
40	29/3/21	Comparison of design notation		
41	05/4/21	Software Testing fundamentals test case design.		
42	8/4/21	White box testing.		
43	12/4/21	Basis path method of Testing		
44	15/4/21	Control structure and its types		
45	19/4/21	Black box Testing		
46	20/4/21	& for specialized environments		
47	21/4/21	Strategic approach to S/W testing. Unit testing		
48	22/4/21	Integration testing and its types		
49	26/4/21	Validation testing and types		
50	27/4/21	System testing's		
51	29/4/21	Debugging and its techniques		
52	03/5/21	Technical Metrics for software		
53	04/5/21	Discussion on Multiple Choice Questions based on all units discussion		
54	05/5/21	Discussion on Multiple Choice Questions based on all units discussion		
55	06/5/21	Revision of Unit 1		
56	10/5/21	Revision of Unit 1		
57	11/5/21	Revision of Unit 2		
58	12/5/21	Revision of Unit 2		
59	13/5/21	Revision of Unit 3		
60	17/5/21	Revision of Unit 3		
61	18/5/21	Revision of Unit 4		
62	19/5/21	Revision of Unit 4		
63	20/5/21	Revision of Unit 5		
64	24/5/21	Revision Unit 5		
65	25/5/21	Revision of Unit 6		
66	26/5/21	Revision of Unit 6		

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Name of Faculty: Prof. Ms. N. A. Deshmukh **Subject Code: 8KS04**

Subject Name: NS **Semester: VIII** **Year: Final Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/2021	Introduction about Security Trend:- The OSI Security Architecture.Security Attacks,Security Services, Security Mechanisms.		
2	19/01/2021	A Model for Network Security .		
3	20/01/2021	Symmetric Encryption Principles & Symmetric Block Encryption Algorithms .		
4	21/01/2021	Random and Pseudorandom Numbers & Stream Ciphers and RC4 .		
5	25/01/2021	Cipher Block Modes of Operation.		
6	27/01/2021	Approaches to Message Authentication & Secure Hash Functions and HMAC.		
7	28/01/2021	Public-Key Cryptography Principles & Public-Key Cryptography Algorithms.		
8	01/02/2021	Digital Signatures.		
9	02/02/2021	Key Management.		
10	03/02/2021	Public Key Management.		
11	04/02/2021	Introduction to Authentication Server & Kerberos.		
12	08/02/2021	X.509 Certificate with working.		
13	09/02/2021	Pretty Good Privacy.		
14	15/02/2021	Introduction about SMTP,MIME and S/MIME.		
15	23/02/2021	S/MIME in detail.		
16	24/02/2021	Introduction to an IP Security and its services.		
17	25/02/2021	Implementation of IP security.		
18	8/03/2021	Authentication Header packet format.		
19	9/003/2021	Transport and Tunnel mode with IPV4 AND IPV6.		
20	10/032021	ESP Protocol with Authentication and without Authentication implementation.		
21	15/04/2021	Transport and tunnel mode for ESP protocol.		
22	19/04/2021	Secure Socket Layer & two main concepts of SSL.		
23	20/04/2021	SSL Record Protocol & SSL Record Header Format.		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	21/04/2021	SSL Protocol Stack & Introduction of SET.		
25	22/04/2021	SET participants.		
26	28/04/2021	Introduction about SNMP.		
27	29/04/2021	SNMP protocol management		
28	3/05/2021	SNMP versions andData units.		
29	4/05/2021	Intruder, Intrusion Detection, Intrusion Prevention.		
30	10/05/2021	Password Management.		
31	12/05/2021	Introduction to Malicious software.		
32	17/05/2021	Types of viruses & virus countermeasures.		
33	18/05/2021	Distributed Denial of service attack.		
34	19/05/2021	Firewall introduction.		
35	20/05/2021	Security Evaluation.		
36	24/05/2021	RSA Algorithm with Example.		
37	25/05/2021	DHKE Algorithm with Example.		
38	27/05/2021	LAN,MAN,WAN and Topologies.		
39	31/05/2021	Digital Signature Standard.1st Assignment.		
40	1/06/2021	ESP &MCQs of 1st two units with revision.		
41	2/06/2021	MCQs for 3rd unit and revision.		

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Name of Faculty: Dr. G. R. Bamnote **Subject Code: 4KS01**

Subject Name: AI **Semester: IV** **Year: Second Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	1/02/2021	**Unit I:** AI Introduction		
2	2/02/2021	Foundations of AI		
3	3/-2/2021	AI History, AI State of Art		
4	8/02/2021	Artificial Agent : Agents & Environment		
5	10/02/2021	Good Behavior: The Concept of Rationality		
6	22/02/2021	The Nature of Environments,		
7	24/02/2021	The Structure of Agents		
8	1/03/2021	**Unit II:** Problem Solving Through AI :Introduction, Examples of AI Problems, Nature of AI Problems		
9	2/03/2021	Representation the AI Problems, Production System,		
10	3/02/2021	Algorithm of Problem Solving, Examples of AI Problems: Tic-Tac-Toe, Water Jug Problem		
11	10/03/2021	8-Puzzle Problem, 8- Queens Problem and Cannibals Problem		
12	15/03/2021	Tower of Hanoi Problem, other problems		
13	16/03/2021	Language Understanding Problem, Monkey & Banana Problem, etc		
14	17/03/2021	Nature of AI Problem		
15	22/03/2021	**UNIT III:** Uninformed Search Strategies : Problem-Solving Agents,		
16	23/02/2021	Example Problems,		
17	24/03/2021	Search Algorithms,		
18	30/03/2021	Breadth-First Search, Uniform-Cost Search,		
19	31/03/2021	Depth First search, Depth Limited search,		
20	5/04/2021	Iterative Deepening DFS, Bidirectional Search, Uninformed search comparision		
21	6/04/2021	**UNIT IV:** Informed search: Introduction, basic Concepts Heuristic Search		
22	7/04/2021	Heuristic Knowledge, Designing of Heuristic Function		
23	12/04/2021	Heuristic search Techniques :Generate-and-test, Best-first Search		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	**19/04/2021**	**Best First search, A* algorithm**		
25	20/04/2021	Recursive Best Frst search, Problem Reduction, AND-OR graph, AO* Algorithm		
26	21/04/2021	Local Search Algorithm, Hill Climbing Algorithm		
27	**24/05/2021**	**Constraints Satisfaction**		
28	25/05/2021	Means End Analysis		
29	31/05/2021	UNIT V: Adversarial Search & Games: Introduction		
30	1/06/2021	Optimal Decisions in games, Alpha Beta Pruning		
31	7/06/2021	Refinements		
32	8/06/2021	Monte Carlo Tree Search		
33	9/06/2021	Stochastic Games		
34	21/06/2021	Partially Observable Games Limitations of Game Search Algorithms		
35	22/06/2021	UNIT VI: Introduction,		
36	23/06/2021	Types of Knowledge, Knowledge Representation, 6		
37	28/06/2021	Knowledge Storage, Knowledge Acquisition		
38	29/06/2021	Knowledge Introduction & Management		
39	30/06/2021	Basic Concepts of Knowledge Engineering		
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DCN Execution Plan

Name of Faculty: Prof. Ms. R. A. Meshram **Subject Code: 4KS02**

Subject Name: DCN **Semester: IV** **Year: Second Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01/02/2021	**UNIT I:** Data Communication, Components, Networks		
2	03/02/2021	Network Topology: Mesh, Star, Bus & Ring with its advantages and disadvantages.		
3	04/02/2021	Network types: Local Area Network, Wide Area Network, Switching		
4	05/02/2021	The Internet, Accessing the Internet, Standards and Administration: Internet Standards,		
5	08/02/2021	Internet Administration, Network Models		
6	10/02/2021	Network Models: TCP/IP Protocol Suite		
7	12/02/2021	The OSI Model, Transmission media: Introduction, Guided media & Unguided media-Wireless.		
8	22/02/2021	Switching: Introduction, Circuit Switched Networks, Packet Switching		
9	24/02/2021	UNIT II: Data-link Layer, Framing, Nodes & Links, Services , Two categories of link, Two sub-layers		
10	26/02/2021	Error detection and correction: Introduction, Block Coding, Cyclic codes, Checksum, Forward Error Correction,		
11	01/03/2021	Data link control: DLC services, Data-Link Layer Protocol, HDLC, Point-To-Point Protocol,		
12	03/03/2021	Media Access Control (MAC): Random Access		
13	05/03/2021	Controlled Access		
14	08/03/2021	Channelization.		
15	10/03/2021	Unit IV:Introduction to Network layer Network Layer Services: Packetizing, Routing and Forwarding,		
16	12/03/2021	Other Services Packet Switching: Datagram Approach: Connectionless Service,		
17	15/03/2021	Virtual-Circuit Approach: Connection-Oriented Service		
18	17/03/2021	Network Layer performance: Delay, Throughput, Packet Loss, Congestion Control,		
19	19/03/2021	IPV4 Address: Address Space, Classful Addressing, Classless Addressing		
20	22/03/2021	Dynamic Host Configuration Protocol (DHCP)		
21	24/03/2021	Network Address Resolution (NAT)		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
22	26/03/2021	Forwarding of IP packets: Forwarding Based on Destination Address, Forwarding Based on Label, Routers as Packet Switches		
23	05/04/2021	**Unit IV:** Network Layer Protocols: Internet Protocol (IP),Datagram Format, Fragmentation, Security of IPv4 Datagrams		
24	07/04/2021	IPv6: IPv6 datagram format, Comparison between IPv4 and Ipv6		
25	09/04/2021	Transition from IPv4 to IPv6, ICMP, datagram format of ICMP		
26	12/04/2021	ICMP4 Messages, Debugging Tools, ICMP Checksum		
27	16/04/2021	Routing Algorithm: Distance Vector Routing Protocol		
28	16/04/2021 (Extra)	Link State Routing, IPV6 Addressing: Representation, Address Space, Address Space Allocation, Auto configuration		
29	19/04/2021	Mobile IP: Addressing, Agents, Three Phases, Inefficiency in Mobile IP		
30	21/04/2021	**UNIT V:** Introduction to Transport layer: Introduction, Transport-Layer Services, Connectionless and Connection Oriented Protocols		
31	23/04/2021	Transport-Layer Protocols: Simple Protocol, Stop-and-Wait Protocol, Go-Back-N Protocol (GBN), Selective-Repeat Protocol,		
32	24/05/2021	Bidirectional Protocols: Piggy backing, User Datagram Protocols: User Datagram, UDP Services, UDP Applications		
33	28/05/2021	Transmission Control Protocol: TCP Services, TCP Features , Segment, A TCP Connection		
34	31/05/2021	State Transition Diagram, Windows in TCP, Flow Control, Error Control,		
35	02/06/2021	TCP Congestion Control, TCP Timers, Options		
36	04/06/2021	SCTP: SCTP Services, SCTP Features		
37	07/06/2021	Unit IV:Introduction to Application layer: Providing Services, Application-Layer Paradigms, Client-Server Programming: Application Programming Interface, Using Services of the Transport Layer, Iterative Communication Using UDP, Iterative		
38	11/06/2021	World wide web and HTTP: World Wide Web, HTTP		
39	21/06/2021	FTP: Two Connections, Control Connection, Data Connection, Security for FTP, Electronic Mail: Architecture, Web-Based Mail, E-Mail Security,		
40	23/06/2021	Domain Name System (DNS):Name Space, DNS in the Internet, Resolution, Caching, Resource Records, DNS Messages, Registrars, Security of DNS		
41	25/06/2021	Network Management: Introduction. Configuration Management, Fault Management, Performance Management, SNMP: Managers and Agents, Management Components, ASN.1: Language Basics, Data Types, Encoding		

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Execution Plan

Name of Faculty: Prof. A. A. Chaudhari **Subject Code: 4KS03**

Subject Name: OS **Semester: IV** **Year: Second Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01/02/2021	UNIT 1: Introduction to Operating Systems, Types of OS.		
2	02/02/2021	Understanding Roles of OS with detailed definition, OS Evolution.		
3	03/02/2021	Components of OS, Services, Roles & Responsibilities of OS		
4	04/02/2021	Process: Definition, State Diagram, PCB		
5	08/02/2021	Operations on Processes, Cooperating Processes		
6	10/02/2021	Interprocess Communication, Threads Overview		
7	11/02/2021	Multithreading Models, Threading Issues, Java Threads, Threads, Revision – Unit 1		
8	18/02/2021	UNIT-2 Foundation and Scheduling objectives		
9	22/02/2021	Types of Schedulers, Scheduling criteria		
10	23/02/2021	Throughput, Turnaround Time, Waiting Time, CPU Utilization, Response Time		
11	25/02/2021	Scheduling algorithms: Preemptive and Non preemptive FCFS		
12	01/03/2021	SJF – Preemption & Non Preemption		
13	03/03/2021	Round Robin & Priority Scheduling		
14	04/03/2021	Multilevel Queue, Multilevel Feedback Queue Scheduling, Revision – Numericals		
15	08/03/2021	UNIT-3: Process Synchronisation Problem/ Race Condition		
16	10/03/2021	The Critical Section Problem		
17	15/03/2021	Synchronization Hardware, Semaphores with examples		
18	17/03/2021	Monitors & Deadlocks: Definition & Examples		
19	18/03/2021	Deadlock Prevention , Avoidance		
20	22/03/2021	Deadlock Detection and Recovery from Deadlock. (Revision Unit - 3)		
21	24/03/2021	Unit IV: Introduction to Memory Management (Primary & Secondary Memory)		
22	25/03/2021	Contiguous Memory Allocation		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
23	31/03/2021	Paging & Segmentation with Numericals		
24	01/04/2021	Virtual Memory Management: Background		
25	05/04/2021	Demand Paging		
26	07/04/2021	Page Replacement Policies		
27	08/04/2021	Numericals: Page Replacement , Thrashing, Revision		
28	12/04/2021	UNIT V: File System Interface: Introduction & Directory Structure		
29	15/04/2021	File Sharing & Protection		
30	19/04/2021	File System Implementation, Directory Implementation		
31	21/04/2021	Allocation Methods		
32	22/04/2021	Allocation Methods - Numericals		
33	24/05/2021	Free Space Management		
34	27/05/2021	File Recovery System & Revision Unit 5		
35	31/05/2021	UNIT VI:I/O Systems Overview		
36	02/06/2021	I/O Hardware , Application I/O Interface		
37	03/06/2021	Kernel I/O Interface, Swap Space Management		
38	07/06/2021	Disk Scheduling, Disk Management		
39	10/06/2021	Disk Scheduling Numericals		
40	10/06/2021	Raid Structure & Revision Unit 6		
41	21/06/2021	Gate Question: Unit 1		
42	23/06/2021	Gate Question: Unit 2		
43	24/06/2021	Gate Question: Unit 3		
44	28/06/2021	Gate Question: Unit 4		
45	28/06/2021	Gate Question: Unit 5		
46	29/06/2021	Gate Question: Unit 6		
47	29/06/2021	Revision Unit -1, 2 & 3		
48	30/06/2021	Revision Unit - 4, 5 & 6		

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Execution Plan

Name of Faculty: Prof. Ms. A. B. Pahurkar **Subject Code: 4KS04**

Subject Name: MC&ALP **Semester: IV** **Year: Second Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	4/2/2021	Introduction to 8086 architecture		
2	5/2/2021	Software model of 8086 microprocessor		
3	9/2/2021	Memory addresses space and data organization		
4	11/2/2021	Data types and pin configuration		
5	12/2/2020	Segment registers, memory segmentation.		
6	18/2/2021	IP & Data registers,.		
7	23/2/2021	Pointer, Index registers		
8	25/2/2021	Memory addresses generation.		
9	26/2/2021	Addressing modes of 8086		
10	2/3/2021	8086 Instruction set overview		
11	4/3/2021	Data Transfer Instructions		
12	5/3/2021	XCHG, XLAT and flag instruction		
13	9/3/2021	Specific address instruction		
14	12/3/2021	Arithmetic Instructions		
15	16/3/2021	addition and subtraction instructions		
16	17/3/2021	multiplication and division instructions		
17	18/3/2021	Examples on instructions		
18	23/3/2021	Examples asked in previous papers		
19	25/3/2021	Examples on programming		
20	26/3/2021	NE		
21	30/3/2021	Programmes		
22	31/3/2021	Introduction to logical instruction		
23	1/4/2021	Rotate and shift instruction examples		

24	6/4/2021	AND, OR, XOR, NOT instructions and programming		
25	8/4/2021	JUMP, CMP and Return Instructions		
26	9/4/2021	programs		
27	15/4/2021	Introduction to stack and instructions		
28	20/4/2021	Introduction to Subroutine and Macros		
29	22/4/2021	Programming related to subroutine and I/O address Space		
30	23/4/2021	Examples		
31	25/5/2021	8086 Interrupts types, priority and instructions. Interrupt vector table,		
32	27/5/2021	External hardware-interrupt interface signals & interrupts sequence		
33	28/5/2021	Interrupt processing sequence and bus cycle of 8088		
34	1/6/2021	8086 microprocessor interrupt programming		
35	3/6/2021	Software interrupts, Non-maskable interrupts		
36	4/6/2021	Introduction to IOT, Sources of IOT		
37	8/6/2021	Conceptual framework of IOT		
38	10/6/2021	Architecture of IOT		
39	11/6/2021	M2M communication		
40	22/6/2021	Examples of IOT		
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Execution Plan

Name of Faculty: Prof. A. R. Deshmukh **Subject Code: 4KS05**

Subject Name: TOC **Semester: IV** **Year: Second Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	02/02/21	Overview of Subject		
2	03/02/21	Introduction to Finite State Machine		
3	05/02/21	Alphabet, String		
4	09/02/21	Formal and Natural Language		
5	09/02/21	Operations		
6	10/02/21	Definition of Deterministic Finite Automata(DFA)		
7	11/02/21	Design of Deterministic Finite Automata		
8	12/02/21	Examples based on DFA		
9	18/02/21	Examples based on DFA		
10	23/02/21	Non Deterministic Finite Automata(NFA)		
11	24/02/21	Examples based on NFA		
12	25/02/21	Conversion of NFA into DFA		
13	26/02/21	Epsilon NFA		
14	02/03/21	Conversion of NFA with epsilon move to NFA		
15	03/03/21	Definition and construction of Moore machine		
16	04/03/21	Definition and construction of Mealy machine		
17	05/03/21	Conversion of Moore to Mealy		
18	08/03/21	Conversion of Mealy to Moore		
19	09/03/21	Definition and identities of Regular Expression		
20	09/03/21	Construction of Regular Expression (RE) of the given language		
21	10/03/21	Construction of Language from the RE		
22	12/03/21	Conversion of Finite Automata to Regular Expression using Arden's theorem		
23	16/03/21	Examples based on conversion of FA to RE		
24	18/03/21	Interconversion of RE to FA		
25	19/03/21	Interconversion of RE to FA		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
26	19/03/21	Pumping Lemma for Regular languages		
27	23/03/21	Pumping Lemma for Regular languages		
28	24/03/21	Regular Grammar		
29	25/03/21	Equivalence of Regular Grammar and Finite Automata		
30	26/03/21	Right Linear Grammar and Left Linear Grammar		
31	30/03/21	Introduction to Context Free Grammar		
32	31/03/21	Formal Definition of Grammar, Notation		
33	01/04/21	Derivation process: Leftmost derivation and Rightmost derivation, Derivation Tree		
34	06/04/21	Construction of context free grammar and language		
35	07/04/21	Simplification of CFG		
36	08/04/21	Introduction and definition of PDA		
37	09/04/21	Construction of PDA		
38	16/04/21	Construction of PDA		
39	20/04/21	Acceptance of CFL		
40	21/04/21	Equivalence of CFL and PDA: Interconversion		
41	22/04/21	Introduction of DCFL and DPDA		
42	23/04/21	Introduction and Formal Definition of Turing Machine		
43	25/05/21	Design of Turing Machine		
44	27/05/21	Design of Turing Machine		
45	28/05/21	Examples based on Turing Machine		
46	01/06/21	Chomsky Hierarchy		
47	02/06/21	Universal Turing Machine, multitape Turing machine		
48	04/06/21	Decidability of problem		
49	08/06/21	Halting Problem of Turing Machine		
50	09/06/21	Recursive enumerable language		
51	10/06/21	Post correspondence problem		
52	21/06/21	Introduction to recursive function theory		
53	22/06/21	Recursive function example		
54	23/06/21	Introduction to context sensitive language		
55	24/06/21	Linear Bounded Automata		
56	29/06/21	Pumping Lemma for CFL		

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Execution Plan

Name of Faculty: Prof. Ms. S. G. Taley **Subject Code: 4KS01**

Subject Name: AI **Semester: IV** **Year: Second Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	2/02/2021	Introduction : What Is AI?		
2	4/02/2021	The Foundations of Artificial Intelligence, The History of Artificial Intelligence		
3	5/02/2021	The State of the Art, Risks and Benefits of AI, Intelligent Agents		
4	9/02/2021	Agents and Environments, Good Behavior: The Concept of Rationality		
5	11/02/2021	The Nature of Environments : Task Environments		
6	12/02/2021	Properties of task environments		
7	18/02/2021	Agent structure		
8	23/02/2021	Problem Solving Through AI: Introduction		
9	25/02/2021	Representation the AI Problems		
10	26/02/2021	Production System		
11	02/03/2021	Algorithm of Problem Solving		
12	04/03/2021	Examples of AI Problems		
13	05/03/2021	Nature of AI Problems		
14	09/03/2021	Uninformed Search Strategies: Problem-Solving Agents		
15	12/03/2021	Example Problems		
16	16/03/2021	Search Algorithms		
17	18/03/2021	Uninformed Search Strategies: Breadth-First Search		
18	19/03/2021	Depth First Search, Depth Limited Search,		
19	23/03/2021	Iterative Deepening Depth-First Search		
20	25/03/2021	Uniform-Cost Search, Bidirectional Search,		
21	26/03/2021	Informed Search Strategies: Basic Concept of Heuristic Search		
22	30/03/2021	Basic Concept of Heuristic Knowledge		
23	01/04/2021	Designing of Heuristic Function,		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	06/04/2021	Heuristic Search Strategies: Generate-And-Test, Best-First Search		
25	08/04/2021	Problem Reduction, Hill Climbing		
26	09/04/2021	Constraint Satisfaction, Means-Ends-Analysis		
27	15/04/2021	Adversarial Search & Games : Game Theory		
28	16/04/2021	Optimal Decisions in Games, Mini-Max Search,		
29	20/04/2021	Alpha Beta Pruning, Additional Refinements,		
30	22/04/2021	Monte Carlo Tree Search, Stochastic Games,		
31	23/04/2021	Partially Observable Games		
32	23/04/2021	Limitations of Game Search Algorithms		
33	25/05/2021	Introduction to Knowledge : Introduction		
34	27/05/2021	Types of Knowledge		
35	28/05/2021	Knowledge Representation, Knowledge Storage		
36	31/05/2021	Knowledge Acquisition		
37	01/06/2021	Knowledge Organization and Management		
38	03/06/2021	Basic Concepts of Knowledge Engineering		
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Execution Plan

Name of Faculty: Prof. A. R. Mune **Subject Code: 4KS02**

Subject Name: DCN **Semester: IV** **Year: Second Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01/02/2021	**UNIT:-1** Introduction: Data Communication		
2	02/02/2021	Components of Data Communication		
3	03/02/2021	Networking Topology		
4	04/02/2021	Network types: Local Area Network,Wide, Area Network		
5	08/02/2021	Switching, The Internet, Accessing the Internet, Standards and Administration: Internet, Standards, Internet Administration		
6	09/02/2021	Network Models:TCP/IP Protocol Suite		
7	10/02/2021	The OSI Model,		
8	22/02/2021	Transmission media: Introduction, Guided media & Unguided media-Wireless		
9	23/02/2021	Switching: Introduction, Circuit, Switched Networks, Packet Switching.		
10	24/02/2021	Revision		
11	01/03/2021	**Unit 2**: Data link Layer Data Link Layer: Introduction Nodes & Links, Services ,		
12	02/03/2021	Two categories of link, Two sub-layers		
13	03/03/2021	Error detection and correction: Introduction,		
14	10/03/2021	Block Coding		
15	15/03/2021	Cyclic codes		
16	16/03/2021	Checksum, Forward Error Correction		
17	17/03/2021	Data link control: DLC services, Data-Link Layer Protocol		
18	22/03/2021	HDLC,		
19	23/03/2021	Point-To-Point Protocol,		
20	25/03/2021	Media Access Control (MAC): Random Access, Controlled Access,Channelization		
21	05/04/2021	**Unit 3**: Network Layer:-Introduction to Network layer Network Layer Services: Packetizing, Routing & Forwarding,		
22	06/04/2021	Services Packet Switching: Datagram Approach: Connectionless Service, Virtual-Circuit, Approach: Connection - Oriented Service		
23	07/04/2021	Network Layer performance: Delay,		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	12/04/2021	Throughput, Packet Loss, Congestion Control		
25	15/04/2021	IPV4 Address: Address Space, Classful Addressing, Classless Addressing		
26	19/04/2021	Dynamic Host Configuration Protocol		
27	20/04/2021	Network Address Resolution (NAT), **Forwarding of IP packets:** Forwarding Based on Destination Address, Forwarding Based on Label,		
28	21/04/2021	Routers as Packet Switches and Revision of Unit_3		
29	24/05/2021	**Unit-4**:-Network Layer Protocols: Internet Protocol (IP),Datagram Format		
30	24/05/2021	Fragmentation, Security of IPv4 Datagrams		
31	25/05/2021	ICMPV4:-Messages, Debugging Tools, ICMP Checksum		
32	01/06/2021	Mobile IP: Addressing, Agents, Three Phases, Inefficiency in Mobile IP, Routing algorithms: Distance Vector routing, Link State Routing		
33	02/06/2021	,IPV6 Addressing: Representation, Address Space, Address Space Allocation, Auto configuration, Renumbering		
34	03/06/2021	Transition from IPV4 To IVP6:Strategies and USE of IP		
35	07/06/2021	**UNIT:-5** Introduction to Transport layer: Introduction, Transport-Layer Services, Connectionless and Connection-oriented Protocols		
36	08/06/2021	Transport-Layer Protocols: Simple Protocol, Stop-and-Wait Protocol, Go-Back-N, Protocol (GBN), Selective-Repeat Protocol, Bidirectional Protocols: Piggy backing		
37	09/06/2021	User Datagram Protocols: User Datagram, UDP Services, UDP Applications		
38	21/06/2021	Transmission Control Protocol: TCP Services, TCP Features , Segment, A TCP Connection, State Transition Diagram, Windows in TCP, Flow Control, Error Control, TCP Congestion Control, TCP Timers, Options		
39	22/06/2021	SCTP: SCTP Services, SCTP Features		
40	23/06/2021	UNIT:_6-Introduction to Application layer: Providing Services, Using Services of the Transport Layer, Iterative Communication Using UDP, Iterative Communication Using TCP, Concurrent Communication		
41	28/06/2021	World wide web and HTTP: World Wide Web, Hyper-Text Transfer Protocol (HTTP) FTP: Two Connections, Control Connection, Data Connection, Security for FTP, Electronic Mail: Architecture, Web-Based Mail, E-Mail Security,		
42	29/06/2021	Domain Name System (DNS):Name Space, DNS in the Internet, Resolution, Caching, Resource Records, DNS Messages, Registrars, Security of DNS, Network Management: Introduction. Configuration Management, Fault		
43	30/06/2021	SNMP: Managers and Agents, Management Components, ASN.1: Language Basics, Data Types, Encoding.		
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Execution Plan

Name of Faculty: Prof. N. V. Pardakhe **Subject Code: 4KS03**

Subject Name: OS **Semester: IV** **Year: Second Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	1/2/2021	Introduction to Operating System		
2	2/2/2021	Types of Operating System		
3	4/2/2021	Components and Services		
4	8/2/2021	Process Concept		
5	9/2/2021	Process Scheduling		
6	11/2/2021	Operations on Processes		
7	22/2/2021	Cooperating Processes		
8	23/2/2021	Interprocess Communication		
9	25/2/2021	Threads Overview, Multithreading Models		
10	1/3/2021	Threading Issues, Java Threads		
11	2/3/2021	Foundation and Scheduling objectives		
12	4/3/2021	Types of Schedulers, Scheduling criteria		
13	11/3/2021	Scheduling algorithms: Pre-emptive and Non pre-emptive		
14	15/3/2021	FCFS		
15	16/3/2021	SJF-Pre-emptive and Non pre-emptive		
16	18/3/2021	Round Robin, Priority		
17	22/3/2021	Multilevel Queue, Multilevel Feedback Queue Scheduling		
18	23/3/2021	Process Synchronization Basics		
19	25/3/2021	The Critical-Section Problem, Synchronization Hardware		
20	31/3/2021	Deadlock: Necessary conditions		
21	1/4/2021	Deadlock Prevention		
22	5/4/2021	Deadlock Avoidance: Bankers Algorithm		
23	6/4/2021	Example on Bankers Algorithm		
24	8/4/2021	Deadlock Detection Algorithm		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
25	12/04/2021	Deadlock Recovery		
26	15/4/2021	Memory Management Introduction		
27	19/4/2021	Dynamic Loading, Linking and Swapping		
27	20/4/2021	Contiguous Memory allocation		
28	22/04/2021	Paging		
29	24/05/2021	Paging Vs Segmentation		
30	25/05/2021	Virtual Memory		
31	27/05/2021	Page Replacement Policies		
32	31/05/2021	Allocation of Frames, Thrashing		
33	1/6/2021	File system Implementation		
34	3/6/2021	File types, File operations		
35	7/6/2021	Directory Structure		
36	8/6/2021	File System Implementation, Directory Implementation		
37	21/6/2021	Allocation Methods, Free space management, Recovery		
38	22/6/2021	I/O System: I/O Hardware, Application I/O Interface		
39	24/6/2021	Disk Scheduling: FCFS, SSTF		
40	28/6/2021	Disk Scheduling: SCAN, C-SCAN,Look,C-Look		
41	29/6/2021	Disk Management, Swap space Management		
42	1/7/2021	RAID Structure		
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Execution Plan

Name of Faculty: Prof. Ms. P. B. Lohiya **Subject Code: 4KS04**

Subject Name: MC&ALP **Semester: IV** **Year: Second Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	1/02/2021	Introduction to processor, memory, data bus, address bus, microcontroller		
2	5/02/2021	Number system- Hex, binary, decimal, octal		
3	8/02/2021	8086 architecture and its working		
4	11/02/2021	Memory address generation scheme		
5	12/02/2021	PA calculation, IP, Instruction queue		
6	18/02/2021	Execution unit		
7	19/02/2021	Flag register 8086		
8	22/02/2021	Index and Pointer Registers		
9	25/02/2021	Data types of 8086		
10	26/02/2021	Memory alignment and data organisation		
11	1/3/2021	Pin diagram of 8086		
12	4/3/2021	Numeric's, Revision, Quiz Session		
13	5/3/2021	Unit 2: Addressing Modes of 8086		
14	8/3/2021	Addressing Modes of 8086		
15	8/3/2021	Addressing Modes of 8086 Numeric's		
16	9/3/2021	Data Transfer Instructions		
17	12/3/2021	Flag Transfer Instructions		
18	15/3/2021	Special Address Transfer Instructions		
19	18/3/21	Addition group of Instruction		
20	19/3/21	Instruction format of 8086 (2 hours)		
21	22/3/21	SUB, Mul and Div Instruction		
22	23/3/21	TASM Introduction		
23	25/3/21	TASM Commands		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	26/3/21	Program related to Arithmetic group		
25	30/3/21	Addition of 10 consecutive numbers		
26	30/3/21	Subtraction of 10 consecutive numbers		
27	1/4/21	Numerics based on instructions		
28	5/4/21	Logical group of Instructions		
29	6/4/21	Shift and Rotate Instructions		
30	8/4/21	Shift and Rotate Numerics		
31	9/4/21	Branching group of Instructions		
32	12/4/21	Data Transfer program		
33	16/4/21	Mean Program and Loop Instruction		
34	19/4/21	AAA, AAM, AAD, AAS Instructions		
35	22/4/21	Square and Quadratic equation program (2 lectures)		
36	27/5/21	Subroutine Programming		
37	28/5/21	Macros Programming		
38	31/5/21	CALL, RET instruction		
39	3/6/21	Programming subroutines, macros		
40	4/6/21	Interrupt 8086		
41	7/6/21	Interrupt handling instruction		
42	10/6/21	Interrupt vector table 8086		
43	11/6/21	Priority of interrupts, summary		
44	21/6/21	Internet of things		
45	24/6/21	Architecture, arduino basics		
46	25/6/21	Future perspective of IOT		
47	28/6/21	Technology aspect, roadmap of IOT		
48	1/7/21	String Programming		
49	2/7/21	Revision session, question bank distribution		

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Execution Plan

Name of Faculty: Prof. S. S. Dandge **Subject Code: 4KS05**

Subject Name: TOC **Semester: IV** **Year: Second Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	1st Feb 2021	Definition of String, null string,string operations,language , Alphabets, The concept of Closure its type		
2	3rd Feb 2021	Finite Automata, its touples verification of string (Accepted and rejected)		
3	4th Feb 2021	Deterministic Finite Automata Example		
4	5th Feb 2021	Deterministic Finite Automata Example		
5	8th Feb 2021	Non Deterministic Finite Automata, Conversion of NFA into DFA		
6	10th Feb 2021	Conversion of NFA into DFA, NFA with Epsilon, NFA without Epsilon		
7	11th Feb 2021	Examples on Conversion of NFA with epsilon into NFA without Epsilon		
8	18th Feb 2021	Examples on Conversion of NFA with epsilon into NFA without Epsilon		
9	22nd Feb 2021	Finite Automata with Output : Moore Machine, Mealy Machine		
10	24th Feb 2021	Conversion of Mealy machine into Moore Machine		
11	25th Feb 2021	Conversion of Mealy machine into Moore Machine		
12	26th Feb 2021	Conversion of Moore into Mealy Machine and Revision of Unit 1		
13	1st Mar 2021	Unit 2 :- Regular Expression ,Regular sets, Examples on Regular expression		
14	3rd Mar 2021	Identity Rules, Arden's Theorem Conversion of Finite automata into Regular Expression		
15	4th Mar 2021	Conversion of Finite automata into Regular Expression by using Arden's Theorem		
16	5th Mar 2021	Conversion of Regular expression into NFA with Epsilon		
17	8th Mar 2021	Conversion of Regular expression into NFA with Epsilon		
18	12th Mar 2021	Conversion of Regular expression into NFA without Epsilon		
19	15th Mar 2021	Regular Grammar (Right Linear Grammar and Left Linear Grammar) with example		
20	17th Mar 2021	Conversion of Regular expression into Regular Grammar		
21	18th Mar 2021	Conversion of Regular expression into Regular Grammar		
22	19th Mar 2021	Conversion of Finite automata into Regular Grammar and Revision of Unit II		
23	22nd Mar 2021	Unit III : Context Free grammar , Difference between RG and CFG with Example		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	24th Mar 2021	Derivation TRee LMD, RMD with Examples		
25	25th Mar 2021	Awithmbigious Grammar with examples		
26	26th Mar 2021	Removing Useless Production, Symbols , Remove Null Production with examples		
27	31st Mar 2021	Removing Unit Production, Combine examples solved on Removing UselesProduction,Null Production		
28	1st Apr 2021	Removing Unit Production, Combine examples solved on Removing UselesProduction,Null Production		
29	5th Apr 2021	Normal form of CGF:- Chomsky Normal Form , Greibach Normal Form, Ex. of CNF		
30	7th Apr 2021	Example of CNF		
31	8th Apr 2021	Example of GNF		
32	9th Apr 2021	Example of GNF by using Lemma Rule		
33	15th Apr 2021	**Unit IV** :- The working of Push Down Automata (PDA)		
34	16th Apr 2021	Examples of Push Down Automata with verification of a string		
35	19th Apr 2021	Examples of Push Down Automata with verification of a string		
36	22nd Apr 2021	Example of DPDA and NPDA		
37	23rd Apr 2021	Conversion of CFG to PDA		
38	24th May 2021	Conversion of PDA to CFG		
39	27th May 2021	Linear Bounded Automata with examples Revision unit IV		
40	28th May 2021	**Unit-V** Turning Machine Working, Tuple		
41	31st May 2021	Examples of Turning Machine		
42	2nd June 2021	Examples of Turning Machine		
43	4th June 2021	Examples of Mathematical operation on Turning Machine		
44	4th June 2021	Examples of Mathematical operation on Turning Machine		
45	7th June 2021	Types of Turning Machine, Church's Hypothesis		
46	9th June 2021	Universal Turning Machine , Revise Unit V		
47	10th Jun 2021	Unit-VI:- Post correspondence Problem (PCP) Modified Correspondence Problem (MPCP)		
48	11th Jun 2021	Decidability of Problems, Halting Problem of TM, Un-Decidability:		
49	21st Jun 2021	Recursive enumerable language, Properties of recursive & non-recursive enumerable languages		
50	23rd Jun 2021	Introduction to Recursive Function Theory, Revise Unit VI		
51	24th June 2021	Revision / Solving Extra Problem of Unit 1, Unit 2		
52	25th June 2021	Revision / Solving Extra Problem of Unit 3, Unit 4 and Unit 5.		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
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Execution Plan

Name of Faculty: Prof. G. J. Sawale **Subject Code: 4KS01**

Subject Name: AI **Semester: IV** **Year: Second Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01-02-2021	Introduction to AI, Areas of AI		
2	03-02-2021	Turing test Approach,The cognitive modeling approach,The laws of thought approach,The Rational agent approach		
3	04-02-2021	The Foundations of Artificial Intelligence , The History of Artificial Intelligence , The State of the Art		
4	08-02-2021	Risks and Benefits of AI, Intelligent Agents: Agents and Environments		
5	10-02-2021	Intelligent Agents: Agents and Environments		
6	11-02-2021	Intelligent Agents: Agents and Environments Good Behavior: The Concept of Rationality		
7	15-02-2021	The Nature of Environments, The Structure of Agents		
8	17-02-2021	Problem Solving Through AI: Introduction		
9	18-02-2021	Representation the AI Problems, Production System		
10	22-02-2021	Algorithm of Problem Solving		
11	24-02-2021	Algorithm of Problem Solving Examples of AI Problems,		
12	25-02-2021	Examples of AI Problems, Nature of AI Problems		
13	01-03-2021	Uninformed Search Strategies: Problem-Solving Agents, Example Problems		
14	03-03-2021	Search Algorithms, Uninformed Search Strategies: Breadth-First Search		
15	04-03-2021	Uninformed Search Strategies- Uniform Cost search		
16	08-03-2021	Uninformed Search Strategies: Depth-First Search		
17	10-03-2021	Uninformed Search Strategies: Depth Limited Search		
18	15-03-2021	Uninformed Search Strategies: Iterative Deepening Depth-First Search		
19	17-03-2021	Uninformed Search Strategies: Bidirectional Search,		
20	18-03-2021	Uninformed Search Strategies: Breadth-First Search , Depth-First Search		

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Execution Plan

Name of Faculty: Prof. Ms. R. A. Kale **Subject Code: 4KS02**

Subject Name: DCN **Semester: IV** **Year: Second Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01/02/2021	Unit-1 Data Communication Introduction,Components of data communication, Data representation		
2	02/02/2021	Data flow,Networks and network criteria,Types of connections		
3	04/02/2021	Physical Topology,Network type		
4	08/02/2021	Switching, The Internet, Accessing the Internet		
5	09/02/2021	Network Models:TCP/IP Protocol Suite		
6	11/02/2021	TCP/IP Protocol Layers		
7	15/02/2021	Router, switches and TCP/IP Protocol Layers		
8	16/02/2021	Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing:		
9	22/02/2021	THE OSI MODEL		
10	23/02/2021	OSI MODELlayers		
11	25/02/2021	Transmission media		
12	01/03/2021	Switching		
13	02/03/2021	Unit-2 Data link layer introduction, nodes and links, services		
14	04/03/2021	Two categories of links, Two sub-layers,Error detection and correction:types of error,Redundancy, .detection versus correction.		
15	08/03/2021	Block Coding		
16	09/03/2021	Cyclic codes		
17	15/03/2021	Checksum, Forward Error Correction		
18	16/03/2021	Data link control: DLC services		
19	18/03/2021	Data-Link Layer Protocol, HDLC		
20	22/03/2021	Point-To-Point Protocol, Media Access Control (MAC): Random Access		
21	23/03/2021	Media Access Control (MAC): Controlled Access, Channelization		
22	25/03/2021	Unit-3 Network layer: Introduction, services		
23	30/03/2021	Network layer services , packet switching: Connectionless service(datagram approach)		
24	01/04/2021	packet switching:Virtual Circuit approach(connection oriented service)		
25	05/04/2021	Network layer Performance,IPv4 introduction		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
25	06/04/2021	IPv4 Address space,notation, classful addressing		
26	08/04/2021	Classless Addressing, Dynamic Host Configuration Protocol		
27	12/04/2021	Network Address Resolution (NAT), Forwarding of IP packets: Forwarding Based on Destination Address		
28	15/04/2021	Forwarding Based on Label, Routers as Packet Switches		
29	19/04/2021	Unit-4 Network Layer Protocols: Internet Protocol (IP),Datagram Format		
30	20/04/2021	Fragmentation concept		
31	22/04/2021	Fragmentation examples		
32	24/05/2021	Options,Security of IPv4 Datagrams		
33	25/05/2021	ICMPv4: Messages,Debugging tools,ICMP Checksum	’	
34	27/05/2021	Mobile IP: Addressing, Agents, Three Phases, Inefficiency in Mobile IP		
35	31/05/2021	IPV6 Addressing: Representation, Address Space, Address Space Allocation, Transition from IPV4 to IPV6: Strategies, Use of IP Addresses		
36	01/06/2021	Routing Algorithms		
37	03/06/2021	Introduction to Transport layer: Introduction, Transport-Layer Services, Connectionless and Connection Oriented Protocols		
38	07/06/2021	Transport-Layer Protocols: Simple Protocol, Stop-and-Wait Protocol, Go-Back-N Protocol (GBN), Selective-Repeat Protocol Bidirectional Protocols: Piggy backing		
39	08/06/2021	User Datagram Protocols: User Datagram, UDP Services, UDP Applications,Transmission Control Protocol: TCP Services		
40	10/06/2021	TCP Segments,TCP Connection,SCTP:SCTP services and features, comparison between TCP segments and SCTP packets.		
41	24/06/2021	Application layer :Introduction,Providing services of application layer,application layer paradigms		
42	24/06/2021	WWW and HTTP		
43	25/06/2021	FTP, Electronic Mail		
44	28/06/2021	DNS : name space,DNS in the Internet, Resolution, Caching,DNS Messages, Registrars		
45	28/06/2021	Network management types, SNMP, ASN.1		
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Execution Plan

Name of Faculty: Prof. R. R. Karwa **Subject Code: 4KS03**

Subject Name: OS **Semester: IV** **Year: Second Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	02-02-21	Unit I: Introduction to OS, Component of Computer		
2	04-02-21	Component of OS, OS Services		
3	05-02-21	Introduction to Process, Process Control Block		
4	09-02-21	Process State Diagram, Schedulers		
5	11-02-21	Process Scheduling		
6	12-02-21	Cooperating Process, IPC		
7	23-02-21	Threads, Multithreading, Issues		
8	25-02-21	Unit II: Introduction to CPU scheduling, Criteria		
9	26-02-21	FCFS Numerical		
10	02-03-21	SJF Non Preemptive Numerical		
11	04-03-21	SJF Preemptive, Priority Numerical		
12	05-03-21	Round Robin Numerical		
13	08-03-21	Round Robin, Multilevel, Multilevel Feedback		
14	09-03-21	Unit III: Introduction to Process Synchronization		
15	16-03-21	Producer Consumer Problem and Race Condition, Critical Section		
16	18-03-21	Two Process Solution Algorithms (1,2,3)		
17	19-03-21	Multiple Process Solution Algorithms (Bakery and Lock)		
18	23-03-21	Synchronization Hardware (Test and Set, Swap Instruction)		
19	25-03-21	Semaphore (Basic definition), Wait & Signal Operation		
20	26-03-21	Semaphore (Counting & binary), Monitor		
21	30-03-21	Deadlock(definition, Necessary Condition)		
22	31-03-21	Deadlock(Resource allocation graph)		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
23	01-04-21	Deadlock Handling Methods(Prevention, Ignorance)		
24	06-04-21	Banker's Algorithm (First part: Safety algorithm)		
25	08-04-21	Banker's Algorithm (Second Part: Resource Request Algorithm)		
26	09-04-21	Banker's algorithm numerical, Deadlock detection & recovery		
27	15-04-21	Unit IV: Background: Memory Hierarchy		
28	16-04-21	Background: Address Binding, LA PA, Linking, Loading		
29	19-04-21	Memory Management Contiguous Techniques: Fixed and Variable		
30	20-04-21	Algorithm- First Fit, Best Fit, Worst Fit		
31	21-04-21	Introduction to Paging		
32	22-04-21	Paging : Model, Hardware, Protection, Shared Pages		
33	23-04-21	Implementation of Page table , Introduction to Segmentation		
34	25-05-21	Segmentation Hardware and Implementation		
35	27-05-21	Virtual Memory:Demand Paging,PageFault		
36	28-05-21	Page Replacement Policy: FIFO		
37	01-06-21	Page Replacement Policy: LRU		
38	03-06-21	Page Replacement Policy: Optimal, Thrashing		
39	04-06-21	Unit V- File System Introduction, Access Methods		
40	08-06-21	Directory, Types of Directories, File Mounting		
41	10-06-21	Sharing, Protection, File System Structure & Implementation		
42	11-06-21	Directory System Implementation, Allocation:Contiguous, Linked		
43	21-06-21	Allocation, Free Space, Efficiency Performance, Recovery		
44	22-06-21	Unit 6: Disk Architecture, Disk Scheduling Time Parameters		
45	24-06-21	Disk Scheduling Algo-FCFS,SSTF,SCAN,LOOK,C-SCAN,C-LOOK		
46	25-06-21	Disk Management + I/O system hardware, BUS structure, Registers		
47	30-06-21	Kernel subsystem, DMA, remaining topics		
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Execution Plan

Name of Faculty: Prof. G. B. Saboo **Subject Code: 4KS04**

Subject Name: MC&ALP **Semester: IV** **Year: Second Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	1/2/21	**UNIT I:** Introduction to Microprocessor & ALP		
2	2/2/21	Architecture of 8086		
3	8/2/21	Register Organisation of 8086, Data Registers		
4	9/2/21	Flag Register, Memory Address Generation		
5	11/2/21	Physical Address Calculation, Software Model of 8086		
6	18/2/21	Memory Address Space and Data Organisation		
7	18/2/21	Data Types, Memory Segmentation		
8	22/2/21	**UNIT II:** Instruction Set, MOV, XCHG		
9	23/2/21	Instructions: ADD, ADC, INC, DAA		
10	25/2/21	Instructions: AAA, SUB, SBB, DEC, NEG		
11	1/3/21	Instructions: DAS, AAS, MUL, IMUL, DIV, IDIV		
12	2/3/21	Instructions: CBW, CWD, LEA, LDS		
13	4/3/21	LES, Addressing Modes		
14	9/3/21	Programs based on Data Transfer and Arithmetic Instruction		
15	12/3/21	Unit III: Instructions: AND,OR, NOT, XOR, SHR, SAR, SHL, SAL		
16	15/3/21	Flag Control Instruction, Compare Instruction		
17	16/3/21	Unconditional Jump and Conditional Jump Instruction		
18	18/3/21	CALL and RET Instruction (Intrasegment)		
19	22/3/21	CALL and RET Instruction (Intersegment), Machine Control Instruction		
20	23/3/21	Branch Program Structure, LOOP Instructions		
21	25/3/21	Programs based on Instruction set of 8086		
22	30/3/21	**UNIT IV:** 8086 Stack Segment and stack related instruction		
23	1/4/21	Subroutines, CALL, RET, Near and Far Procedure		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	5/4/21	Directives, Concept of Macro		
25	6/4/21	Directives, Concatenation in Macro		
26	8/4/21	Nested Macro with example		
27	12/4/21	Recursive Macro, Passing the Parameters		
28	15/4/21	Interrupt and Its Type		
29	19/4/21	Programs based on instruction set of 8086		
30	20/4/21	Programs based on instruction set of 8086		
31	22/4/21	Programs based on instruction set of 8086		
32	24/5/21	**UNIT V:** Interrupt Types, Priority		
33	25/5/21	Interrupt Vector Table, Interrupt Instruction		
34	27/5/21	Interrupt Response, Enabling and Disabling Interrupts		
35	31/5/21	External Hardware- Interrupt Interface Signal and Sequence		
36	1/6/21	Software Interrupt, NMI Interrupt, 8086 Interrupt Programming		
37	3/6/21	**UNIT VI:** Internet ofThings: An Overview		
38	4/6/21	IoT Conceptual Framework		
39	7/6/21	IoT Architectural View		
40	8/6/21	Technology Behind IoT		
41	10/6/21	Sources of IoT		
42	21/6/21	M2M Communication		
43	22/6/21	Examples of IoT		
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Execution Plan

Name of Faculty: Prof. Ms. K. R. Hole **Subject Code: 4KS05**

Subject Name: TOC **Semester: IV** **Year: Second Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	01/02/21	**UNIT-1** : TOC basics, symbols used, Finite automata		
2	02/02/21	DFA,NFA examples		
3	03/02/21	DFA- examples of starts with		
4	04/02/21	DFA- examples of ends with		
5	05/02/21	DFA- example of starts with and ends with		
6	08/02/21	DFA- examples of substring		
7	09/02/21	DFA- examples of except/ not including/ other than		
8	10/02/21	DFA- more basic examples		
9	12/02/21	DFA- examples of even odd for single input		
10	22/02/21	DFA- examples of even odd for double input		
11	23/02/21	NFA- introduction and examples		
12	24/02/21	Conversion of NFA with epsilon into without epsilon		
13	26/02/21	Conversion of NFA to DFA		
14	01/03/21	Mealy and Moore machine- introduction and example		
15	02/03/21	Mealy to Moore conversion		
16	03/03/21	**UNIT II** : Regular Expression Basics, Operations & rules		
17	05/03/21	Conversion of Finite automata to RE with Arden's Theorem		
18	08/03/21	Conversion of Finite automata to RE with examples		
19	09/03/21	Conversion of RE to NFA with epsilon		
20	10/03/21	Conversion of RE to NFA without epsilon		
21	12/03/21	Regular Grammar with types- Right LG & Left LG		
22	15/03/21	Right Linear Grammar & Left Linear Grammar examples		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
23	16/03/21	Pumping Lemma with examples		
24	17/03/21	**UNIT III** : Context free grammar with examples		
25	19/03/21	Derivation tree- leftmost & rightmost with parse tree		
26	22/03/21	Ambiguous Grammar with examples		
27	23/03/21	Removing useless, null & unit productions with examples		
28	24/03/21	Normal forms of CFG- Chomsky NF with examples		
29	25/03/21	Normal forms of CFG- Greibach NF with examples		
30	30/03/21	GNF With Lemma rule		
31	31/03/21	Push Down Automata(PDA)- examples		
32	05/04/21	**UNIT V** : Chomsky Hierarchy and types		
33	06/04/21	DPDA & DCFL with examples		
34	07/04/21	Linear bounded Automata		
35	09/04/21	Linear bounded Automata examples, Computability & decidability.		
36	12/04/21	**UNIT VI** : Recursive Language and properties		
37	15/04/21	PCP, MPCP examples		
38	28/05/21	Basic Recursive functions		
39	30/05/21	Recursive functions with examples : Addition, Subtraction		
40	01/06/21	Recursive functions with examples : Multiplication, Factorial		
41	02/06/21	**UNIT IV :** Turing Machine, Turing Machine model and tuples		
42	04/06/21	Turing Machine examples- Given language & One's compliment		
43	07/06/21	Turing Machine examples- Given languages		
44	08/06/21	Turing Machine examples- Given languages		
45	11/06/21	Turing Machine examples- Addition operation		
46	21/06/21	Types of TM		
47	22/06/21	Types of TM		
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Execution Plan

Name of Faculty: Prof. Ms. M. A. Deshmukh **Subject Code: 6FEKS05**

Subject Name: DBMS-FE1 **Semester: VI** **Year: Third Year** **Section:**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	22/01/21	UNIT 1: Introduction to DBMS, Applications		
2	23/01/21	View of Data,Instances & Schemas,Data Models		
3	29/01/21	Database Languages		
4	30/01/21	Database Structure, E-R Model		
5	05/02/21	types of Attributes, Relationship model		
6	06/02/21	Cardinality Constraints, Keys, Relational Algebra		
7	12/02/21	UNIT 2: Data Definition, Basic Structure of SQL queries		
8	26/02/21	Set Operations, Aggregate Functions		
9	27/02/21	Complex Queries, Views, Modification of Database, Joined relations.		
10	5/3/21	SQL Data Types and Schemas, Integrity Constraints, Authorization		
11	6/3/21	UNIT 3:Relational Database Design: Atomic Domains,		
12	12/3/21	Normalization and Normal Forms		
13	13/3/21	Functional Dependencies, Decomposition using Functional Dependencies		
14	15/5/21	Unit 4: Measures of Query Cost, Selection Operation, Sorting, Join Operation, Other Operations, Evaluation of Expressions.		
15	21/5/21	Query Optimization: Overview, Transformation of Relational Expressions,		
16	22/5/21	Materialized Views Unit 5:Transaction Management: Transaction Concept,		
17	28/5/21	Serializability		
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Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Computer Science & Engineering

(EVEN Semester 2020-2021)

OS Execution Plan

Name of Faculty: Prof. Ms. K. H. Deshmukh **Subject Code: 6KS01**

Subject Name: OS **Semester: VI** **Year: Third Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of	Sign. of HOD
1	27/01/2021	UNIT I:Prerequisites for Operating System, Introduction: Operating System(OS) definition		
2	28/01/2021	Operating System Evolution, Operating System Components, Operating System Services		
3	29/01/2021	Process Concept, Process Management, Main-Memory Management, Secondary-Storage Management, I/O System		
4	01/02/2021	Cashing, Spooling, File Management, Protection System, Networking.		
5	02/02/2021	Command Interpreter System, Services of OS, System Calls, Virtual Machine.		
6	03/02/2021	Process Concept, Process State Diagram, Process Control Block,		
7	04/02/2021	Process Scheduling, Operation on Processes, Cooperating Processes,		
8	05/02/2021	Inter-process Communication, Synchronization, Buffering,		
9	08/02/2021	Threads: Multithreading Models,		
10	09/02/2021	Threading Issues, Java Threads.		
11	15/02/2021	Revision Unit I.		
12	16/02/2021	UNIT II : CPU Scheduling: Concepts, Scheduling Criteria,		
13	17/02/2021	CPU Scheduler, Types of Scheduling (Preemptive, Non-Preemptive), Dispatcher.		
14	18/02/2021	Scheduling Algorithms (FCFS with Example)		
15	22/02/2021	Scheduling Algorithms (SJF with Example)		
16	23/02/2021	Scheduling Algorithms (Priority Scheduling with Example)		
17	24/02/2021	Scheduling Algorithms (Round Robin with Example)		
18	25/02/2021	Process Synchronization: The Critical Section Problem,		
19	26/02/2021	Solution For Critical section Problem: Synchronization Hardware type, software type solutions,		

Sr. No	Date	Topics to be Covered	Sign. of	Sign. of HOD
20	01/03/2021	Semaphore, types of Semaphore, Monitor.		
21	02/03/2021	Deadlocks: Definition & Characterization, Resource Allocation Graph.		
22	03/03/2021	Resource Allocation Graph Example.		
23	04/03/2021	Resource Allocation Graph Example (with Deadlock).		
24	05/03/2021	Deadlock Prevention, Deadlock Avoidance,		
25	08/03/2021	Banker's Algorithm Problem.		
26	09/03/2021	Deadlock Detection and Recovery		
27	10/03/2021	Revision Unit II		
28	12/03/2021	Unit III: Memory Management: Background, Swapping.		
29	15/04/2021	Contiguous Memory Allocation: First Fit, Best Fit, Worst Fit.		
30	19/04/2021	Fragmentation w.r.t. Fixed Partitioning, Variable Partitioning		
31	29/04/2021	Non-Contiguous Memory Allocation: Paging		
32	30/04/2021	Paging Hardware, Hierarchical Paging		
33	03/05/2021	Segmentation, Physical Address calculation Problems w.r.t. Paging and Segmentation		
34	04/05/2021	Virtual Memory, Demand Paging, Steps to Handle Page Fault.		
35	05/05/2021	Page Replacement Algorithm. FIFO, LRU and Optimal with Problems.		
36	06/05/2021	UNIT IV: Introduction to File-System Interface, types of access.		
37	07/05/2021	Directory Structure, Operations on Directory, Single Level Directory, Two Level Directory		
38	12/05/2021	Tree Structured Directory, Acyclic graph Structured Directory		
39	17/05/2021	File System Protection, Types of Access, Access Control, Types of Users		
40	18/05/2021	File System Structure, File System Implementation, Virtual File System.		
41	19/05/2021	Directory Implementation, Allocation Methods.		
42	20/05/2021	Free Space Management, Efficiency and Performance, Recovery		
43	21/05/2021	UNIT V: I/O Systems: Overview, I/O Hardware, Application I/O Interface.		
44	24/05/2021	Kernel I/O Subsystem, Transforming I/O to Hardware Operations.		
45	25/05/2021	Disk Scheduling, Disk Management.		
46	27/05/2021	Swap-Space Management, RAID Structure.		
47	28/05/2021	UNIT VI: The Linux System: History, Design Principles, Kernel Modules		
48	31/05/2021	Process Management, Scheduling, Memory Management		
49	01/06/2021	File systems, Input and Output in Linux, Inter process Communication, Network Structure & Security in Linux		

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Execution Plan

Name of Faculty: Prof. Ms. P. P. Deshmukh **Subject Code: 6KS02**

Subject Name: DBS **Semester: VI** **Year: Third Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/2021	**Unit-I:** Database System Applications, Database Systems versus File Systems		
2	19/01/2021	View of Data, Data Models		
3	20/01/2021	Database Languages, Database Users and Administrators		
4	21/01/2021	Transaction Management, Database System Structure		
5	22/01/2021	Application architectures, History of Database Systems.		
6	25/01/2021	Entity Relationship Model, Basic Concepts, Constraints		
7	28/01/2021	Keys, Design Issues, Entity-Relationship Diagram		
8	29/01/2021	Weak Entity Sets, Extended E-R Features		
9	01/02/2021	Design of an E-R Database Schema		
10	02/02/2021	Reduction of an E-R Schema to Tables. And solved university problems		
11	04/02/2021	**Unit-II:** Relational Model: Structure of Relational Databases		
12	05/02/2021	The Relational Algebra		
13	08/02/2021	Extended Relational-Algebra Operations		
14	09/02/2021	Modification of the Database		
15	15/02/2021	Views		
16	16/02/2021	Tuple Relational Calculus		
17	18/02/2021	Domain Relational Calculus		
18	23/02/2021	SQL: Basic Structure		
19	25/02/2021	Set Operations		
20	26/02/2021	Aggregate Functions		
21	01/03/2021	Null Values		
22	02/03/2021	Nested Sub-queries		
23	04/03/2021	Views and solved university problems		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	04/03/2021	**Unit-III:** Integrity and Security		
25	05/03/2021	Domain Constraints, Referential Integrity		
26	09/03/2021	Assertions, Triggers		
27	**15/04/2021**	Security and Authorization, Authorization in SQL,		
28	29/04/2021	Encryption and Authentication, Relational-Database Design:,		
29	30/04/2021	First Normal Form, Pitfalls in Relational-Database, Design,		
30	18/03/2021	Functional Dependencies, Decomposition,		
31	03/05/2021	BCNF, Third, Fourth and more Normal Forms		
32	04/05/2021	Overall Database Design Process.		
33	06/05/2021	**Unit-IV**: Query Processing: Overview, Measures of Query Cost,		
34	07/05/2021	Selection Operation, Sorting,		
35	10/05/2021	Join Operation, Other Operations		
36	11/05/2021	Evaluation of Expressions, Query Optimization		
37	13/05/2021	Overview, Estimating Statistics of Expression Results		
38	17/05/2021	Transformation of Relational Expressions		
39	18/05/2021	Choice of Evaluation Plans		
40	20/05/2021	Materialized Views		
41	21/05/2021	**Unit-V**: Transaction Management: Transaction Concept, Transaction State		
42	24/05/2021	Implementation of Atomicity and Durability		
43	25/05/2021	Concurrent Execution, Serializability		
44	27/05/2021	Recoverability, Implementation of Isolation		
45	28/05/2021	Transaction Definition in SQL		
46	31/05/2021	Testing for Serializability		
47	01/06/2021	**Unit-VI**: Concurrency Control: Lock-Based Protocols		
48	02/06/2021	Timestamp- Based Protocols, Validation-Based Protocols		
49	04/06/2021	Multiple Granularities, Multi-version Schemes		
50	07/06/2021	Deadlock Handling, Insert an Delete Operations Weak Levels of Consistency		
51	08/06/2021	Concurrency in Index Structures. Recovery System: issues & solutions		
52	08/06/2021	Question Paper Solve		
53	09/06/2021	Gate Question Paper solved		
54	10/06/2021	Both University & Gate Questions discussed		

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Execution Plan

Name of Faculty: Prof. Ms. P. N. Deshmukh **Subject Code: 6KS03**

Subject Name: CRM **Semester: VI** **Year: Third Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/21	Unit 1: Introduction of System Management, Task , objective and Purpose of System Management		
2	19/01/21	Building a Business case for System Management, Role of Business case for System Management, Goal of Business case		
3	20/01/21	Organizing for System Management		
4	21/01/21	Factors to consider in Designing IT organizations and Infrastructure.		
5	25/01/21	Staffing for system Management		
6	27/01/21	IT as Service		
7	28/01/21	IT service Management		
8	2/02/21	Unit 2: Introduction of Problem Management, Availability and Terms (Uptime , Downtime, slow Response, High Availability)		
9	3/02/21	Components of Availability, Characteristics of an availability,Methods for Measuring Availability.		
10	4/02/21	Seven R's of high availability		
11	8/02/21	Performance and Tuning and Problem Management		
12	9/02/21	Key Steps To Developing a Problem Management process		
13	15/02/21	Unit 3: Storage Management : Definition and Desired Traits		
14	16/02/21	Prioritized Characteristics of a Storage Management Process Owner		
15	17/02/21	Four keys to Storage Management: Capacity, Performance, Reliability,		
16	18/02/21	Recoverability		
17	22/02/21	Network Management: Definition, Characteristics of Process Owner in Network Management		
18	23/02/21	key Decisions about Network Management		
19	24/02/21	Assessing, Measuring and Streamlinig an Infrastructure's Network Management Process		
20	25/02/21	Unit 4: Configuration Management: Definition		
21	1/03/21	Practical Tips for Improving Configuration Management		
22	2/03/21	Capacity Planning: Definition , reasons for poor capacity Planning		
23	4/03/21	Developing an Effective Capacity Planning Process		
24	5/03/21	Benefits and hints for effective capacity planning		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
25	08/03/21	Unit 5: Introduction of Strategic Security		
26	09/03/21	Developing a Strategic security process		
27	10/03/21	Steps for Developing a Strategic Security Process		
28	15-04-21	Assessing an Infrastructure's Strategic Management Process		
29	29-04-21	Facilities Management: Definition		
30	03-05-21	Major Elements for Facilities Management		
31	04-05-21	Major Elements Tips, Assessing, Measuring and Streamlining the Facilities Management Process		
32	05-05-21	Group Discussion and Question Answer Session.		
33	06-05-21	Revised topic and Question Answer Session.		
34	10-05-21	**Unit 6 :**Developing Robust Processes		
35	11-05-21	Features of World-Class Infrastructure.		
36	12-05-21	Common Criteria of World-Class Infrastructure.		
37	17-05-21	Characteristics of a Robust Process.		
38	18-05-21	Characteristics of a Robust Process.		
39	19-05-21	Difference between Service and Process metrics		
40	20-05-21	Difference between formal and Informal Process.		
41	24-05-21	Helpful Ground Rules for Brainstorming		
42	25-05-21	Integrating Systems Management Processes		
43	27-05-21	The value of distinguishing Strategic from Tactical Processes		
44	31-05-21	Client-Server Environment Issues, Web-Enabled Environment Issues.		
45	01-06-21	Revised topic and Question Answer Session.		

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Execution Plan

Name of Faculty: Prof. S. P. Akarte **Subject Code: 6KS04**

Subject Name: CA **Semester: VI** **Year: Third Year** **Section: A**

Sr.No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/2021	**Unit: I**- Introduction to CA, difference between CO & CA		
2	19/01/2021	Instruction Sets: Machine Instruction Characteristics		
3	20/01/2021	Instruction Format, Address system for instruction		
4	21/01/2021	Types of Operands, Intel x86 Data Types		
5	22/01/2021	ARM Data Types		
6	25/01/2021	Types of Operations		
7	27/01/2021	Intel x86 operations		
8	28/01/2021	ARM operations		
9	01/02/2021	**Unit: II**- Instruction Sets		
10	03/02/2021	Addressing Modes		
11	04/02/2021	x86 Addressing modes		
12	05/02/2021	x86 Addressing modes		
13	08/02/2021	ARM Addressing modes		
14	15/02/2021	ARM Addressing modes		
15	17/02/2021	Instruction Formats,		
16	18/02/2021	x86 and ARM Instruction Formats, Assembly language		
17	22/02/2021	Processor Structure and Function: Processor Organization,		
18	24/02/2021	Register Organization, The Instruction Cycle,		
19	25/02/2021	The Instruction Cycle state diagram, Instruction Pipelining,		
20	26/02/2021	Instruction Pipelining Hazards, Resource Hazards		
21	01/03/2021	Data and Control Hazards		
22	03/03/2021	The x86 Processor Family, The ARM Processor		
23	04/03/2021	Reduced Instruction Set Computers (RISCs): Instruction Execution Characteristics		

Sr.No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	05/03/2021	The Use of Large Register File, Register Window		
25	08/03/2021	Circular Buffer Window organization,		
26	10/03/2021	Compiler-Based Register Optimization, Graph color approach		
27	12/03/2021	RISC Architecture, RISC Pipelining. RISC versus CISC		
28	15/04/2021	Unit-5- Control Unit Operation: Micro-operations		
29	29/04/2021	Functions of Processor, Control of the Processor		
30	30/04/2021	Different Cycles of Instruction execution		
31	03/05/2021	Flowchart of Instruction Execution		
32	05/05/2021	Hardwired Implementation,		
33	06/05/2021	Micro programmed control,		
34	07/05/2021	Wilke's Micro programmed Control Unit		
35	10/05/2021	Basic Concepts, Microinstruction Sequencing & Execution.		
36	12/05/2021	Microinstruction Sequencing & Execution.		
37	17/05/2021	Unit-6- Parallel Processing: The Use of Multiple Processors.		
38	19/05/2021	SISD, SIMD,MISD,MIMD		
39	20/05/2021	Symmetric Multiprocessors		
40	21/05/2021	Multithreading		
41	24/05/2021	Chip Multiprocessors,		
42	27/05/2021	Clusters,		
43	28/05/2021	Multicore Organization, Intel x 86 MultiCore Organizations.		

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Execution Plan

Name of Faculty: Prof. Ms. M. A. Deshmukh **Subject Code: 6KS06**

Subject Name: PE **Semester: VI** **Year: Third Year** **Section: A**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	19/01/21	UNIT 1:Introduction to PE, New possibilities & A Vacuum of Policies		
2	20/01/21	Computers Used in Social Context,Moral and Legal Issues		
3	27/01/21	Philosophical Ethics, Ethical relativism		
4	02/02/21	Utilitarianism, DEONTOLOGICAL THEORIES		
5	03/02/21	Need of professional ethics		
6	09/02/21	UNIT 2: *Ethics Online*		
7	10/02/21	*New species of old crime, Netiquette,*		
8	23/02/21	*Privacy, Computer Ethics*		
9	24/02/21	*Property rights in computer software*		
10	02/03/21	UNIT 3: Accountability, Buying and Selling Software		
11	03/03/21	Different senses of Responsibility		
12	09/03/21	Y2K Problem, Diffusion of Accountability		
13	10/03/21	Technology and Social change		
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Execution Plan

Name of Faculty: Prof. A. O. Sable **Subject Code: 6FEKS05**
Subject Name: SPM-FE2 **Semester: VI** **Year: Third Year** **Section:**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	22/01/21	Unit 1- Intro. to Software, Evolving Role of Software		
2	23/2/21	Software Crisis, Software Myths		
3	23/1/21	Software Engg., Layered Technology		
4	29/1/21	Process Model		
5	30/1/21	Waterfall model		
6	30/1/21	Prototyping model		
7	05/2/21	RAD Model, Incremental model		
8	06/02/21	Spiral Model, Project Management concept		
9	06/02/21	W5HH Principa lutu		
10	20/2/21	Unit-6 Software Testing , Testing principle		
11	20/02/21	Whitebox testing, Black Box Testing		
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Execution Plan

Name of Faculty: Dr. Ms. V. M. Deshmukh **Subject Code: 6KS01**
Subject Name: OS **Semester: VI** **Year: Third Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/1/21	Operating Systems : Introduction Users and Systems View		
2	19/1/21	Mainframe Systems, Multiprogrammed systems		
3	20/1/21	Operating System Structures: Services		
4	21/1/21	Systems Components		
5	22/1/21	System design and implementation		
6	25/1/21	Process management : concept scheduling		
7	28/1/21	Operations on processes		
8	29/1/21	Cooperating processes Interprocess communication		
9	2/2/21	Threads : multithreading models		
10	3/2/21	Threading issues Pthreads Java threads		
11	4/2/21	CPU Scheduling Scheduling criteria		
12	5/2/21	Scheduling criteria		
13	8/2/21	Scheduling Algorithms FCFS algorithm Example		
14	9/2/21	Shortest Job First : Example		
15	10/2/21	Priority Scheduling : Example		
16	11/2/21	Round Robin Scheduling : Example		
17	12/2/21	Multilevel Queue Scheduling		
18	4/3/21	Process Synchronization Critical section problem		
19	5/3/21	Semaphores		
20	8/3/21	Synchronization Hardware		
21	11/3/21	Deadlocks System Models		
22	12/3/21	Methods of Handling deadlocks		
23	29/4/21	Deadlocks RAG Deadlock prevention		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	**30/4/21**	**Deadlock Avoidance**		
25	3/5/21	Memory management Contiguous allocation		
26	4/5/21	Paging and Segmentation		
27	**5/5/21**	**Virtual Memory Demand paging Page replacement**		
28	6/5/21	Files Concept Directory structure File sharing Mounting and protection		
29	7/5/21	File system structure and implementation Allocation methods		
30	10/5/21	Free space management Efficiency ,Performance, Recovery		
31	11/5/21	I/O systems Kernel I/O system STREAMS		
32	12/5/21	Disk Scheduling Algorithms FCFS, SSTF, SCAN, C-SCAN, LOOK		
33	13/5/21	Disk Management Swap system management		
34	14/5/21	The Linux system Process management Scheduling		
35	18/5/21	Memory management Scheduling Interprocess communication		
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Execution Plan

Name of Faculty: Prof. Ms. Y. S. Alone **Subject Code: 6KS02**
Subject Name: DBS **Semester: VI** **Year: Third Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-01-21	Introduction to Database system		
2	19-01-21	Database Systems versus File Systems, Data Abstraction Level		
3	20-01-21	Database Languages, Database Users and Administrators, Transaction Management		
4	22-01-21	Database System Structure, Application architectures		
5	25-01-21	History of Database Systems. Entity- Relationship Model		
6	27-01-21	Basic Concepts of E-R, Constraints		
7	29-01-21	Keys, Design Issues, Entity-Relationship Diagram		
8	01-02-21	Weak Entity Sets, Extended E-R Features		
9	02-02-21	Extended E-R Features		
10	03-02-21	Design of an E-R Database Schema		
11	26-02-21	Reduction of an E-R Schema to Tables.		
12	12-03-21	Example Based on E-R Schema		
13	30-04-21	Relational Model: Structure of Relational Databases		
14	30-04-21	Fundamental Relational-Algebra Operations		
15	03-05-21	Additional Relational-Algebra Operations, Extended Relational-Algebra Operations		
16	03-05-21	Modification of the Database, Views.		
17	04-05-21	Tuple Relational Calculus, Domain Relational Calculus, SQL		
18	05-05-21	SQL: Basic Structure, Set Operations, Aggregate Functions, Null Values, Nested Subqueries, Views		
19	10-05-21	Assertions, Triggers, Security and Authorization		
20	10-05-21	Authorization in SQL, Encryption and Authentication		
21	11-05-21	Relational-Database Design: INF, Pitfalls in Relational-Database Design		
22	12-05-21	Functional Dependencies, Types of FD, Example of FD		
23	12-05-21	Decomposition, Overall Database Design Process		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	17-05-21	Normalization		
25	17-05-21	Type of Normalization		
26	18-05-21	Query Processing :Overview, Measures of Query Cost, Selection Operation		
27	19-5-21	Selection Operation using indices,Selections Involving Comparisons,Implementation of Complex Selections,Algorithms for Complex Selections,Sorting		
28	19-5-21	Join operation algorithm,merge join,hash join		
29	20-5-21	Evaluation of Expressions:materialization and pipelining,Equivalence Rules		
30	20-5-21	Evaluation Plan,Heuristic Optimization,Materialized View,View Maintenance		
31	20-5-21	Transaction Management,Properties of Transaction,State of transaction,shadow copy,schedule		
32	21-05-21	schedule based on Recoverability:1.Recoverable,2.Cascadeless		
33	24-05-21	3.Strict Schedule,Implementation of Isolation		
34	24-05-21	Transaction in SQL		
35	25-05-21	Testing for serializability:Test for conflict serializability		
36	27-05-21	Test for View Serializability		
37	28-05-21	Concurrency Control Management,Lock Based Protocol		
38	28-05-21	Two Phase Locking Protocol		
39	31-05-21	Timestamp- Based Protocols		
40	31-05-21	Validation-Based Protocols		
41	01-6-21	Multiple Granularities,Multi-version Schemes		
42	01-6-21	Deadlock Handling, Insert and Delete Operations		
43	02-6-21	Weak Levels of Consistency		
44	02-6-21	Concurrency in Index Structures		
45	04-6-21	Relational Algebra queries		
46	07-6-21	Problem based on Relational Algebra queries & SQL		
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Execution Plan

Name of Faculty: Prof. S. P. Ingale **Subject Code: 6KS03**
Subject Name: CRM **Semester: VI** **Year: Third Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/01/21	Systems Management: Definition		
2	19/01/21	Building a Business Case for Systems Management		
3	21/01/21	Organizing for Systems Management		
4	22/01/21	Factors to Consider in Designing IT Organizations and Infrastructure		
5	25/01/21	Designing IT Organizations and Infrastructure		
6	28/01/21	Staffing for Systems Management		
7	29/01/21	IT as Service		
8	01/02/21	IT Service Management.		
9	02/02/21	Unit 2 Availability		
10	04/02/21	Methods for Measuring Availability		
11	05/02/21	Seven ' Rs' of High Availability		
12	08/02/21	Performance and Tuning, Definition and characteristics		
13	09/02/21	Performance and Tuning Applied to the Five Major Resource Environments		
14	16/02/21	Problem Management: Definition and scope.		
15	18/02/21	Key Steps to Developing a Problem Management Process Storage Management		
16	22/02/21	Unit 3 Storage Management: Definition, Desired Traits,		
17	23/02/21	Capacity, Performance,		
18	24/02/21	Reliability, Recoverability RAID		
19	25/02/21	Network Management: Definition		
20	26/02/21	Key Decisions about Network Management, Assessing		
21	01/03/21	Measuring and Streamlining an Infrastructure's Network Management Process		
22	02/03/21	Unit 4 Capacity Planning: Definition		
23	03/03/21	Reasons for poor Capacity Planning		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	04/03/21	Developing an Effective Capacity Planning Process		
25	05/03/21	Benefits and hints for effective capacity planning		
26	08/03/21	Configuration Management, Definition		
27	09/03/21	Practical Tips for Improving Configuration Management		
28	12/03/21	Practical Tips for Improving Configuration Management, Revision		
29	15/04/21	Revision Capacity Planning		
30	29/04/21	Unit 5 Strategic Security: Definition		
31	04/05/21	Developing a Strategic Security Process, Assessing, Measuring and Streamlining the Security Process		
32	06/05/21	Developing a Strategic Security Process, Assessing, Measuring and Streamlining the Security Process		
33	07/05/21	Facilities Management: Definition,		
34	07/05/21	Major Elements, Tips Assessing, Facilities Management Process		
35	11/05/21	Measuring and Streamlining the Facilities Management Process		
36	18/05/21	Tips Assessing, Facilities Management Process		
37	19/05/21	Revision		
38	21/05/21	**Unit 6 :**Developing Robust Processes		
39	25/05/21	features of a World Class infrastructure		
40	27/05/21	Characteristics of a Robust Process		
41	28/05/21	Characteristics of a Robust Process continue		
42	31/05/21	Characteristics of a Robust Process continue		
43	31/05/21	Integrating Systems Management Processes		
44	01/06/21	The value of distinguishing Strategic from Tactical Processes		
45	01/06/21	Client-Server Environment Issues		
46	02/06/21	Web-enabled Environment Issues		
47	03/06/21	Revision		
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Execution Plan

Name of Faculty: Prof. Ms. S. H. Kuche **Subject Code: 6KS04**

Subject Name: CA **Semester: VI** **Year: Third Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18/1/21	**Unit-1**:Instruction Sets:Machine Instruction Characteristics		
2	19/2/21	Types of Operands		
3	20/1/21	Intel x86 Data Types		
4	21/1/21	ARM Data Types		
5	25/1/21	Types of Operations		
6	27/1/21	Intel x86 Operation Types		
7	28/1/21	ARM Operation Types		
8	2/2/21	Types of Operands		
9	3/2/21	**Unit-2**: Instruction set: Addressing		
10	4/2/21	X86 Addressing modes		
11	5/2/21	ARM Addressing modes		
12	8/2/21	Instruction Formats		
13	9/2/21	x86 Instruction Formats		
14	10/2/21	ARM Instruction Formats		
15	11/2/21	Assembly language		
16	15/2/21	Revision		
17	16/2/21	**Unit-III**:Processor Organization		
18	17/2/21	Register Organization		
19	18/2/21	Instruction Cycle		
20	22/2/21	Instruction Pipelining		
21	23/2/21	Pipeline Hazards		
22	24/2/21	Intel 80486 Pipelining		
23	25/2/21	The x86 Processor Family		
24	26/2/21	The ARM Processor		
25	1/3/21	**Unit-IV**: Reduced Instruction Set Computers (RISCs)		
26	2/3/21	Instruction Execution Characteristics		
27	3/3/21	The Use of Large Register File		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
28	4/3/21	Compiler-Based Register Optimization		
29	5/3/21	RISC Architecture		
30	8/3/21	RISC Pipelining		
31	9/3/21	Optimization of Pipelining		
32	10/3/21	RISC versus CISC		
33	11/3/21	Revision		
34	15/3/21	**Unit-V:** Micro-operations		
35	16/3/21	Control of the Processor		
36	17/3/21	Hardwired Implementation		
37	18/3/21	Micro programmed control		
38	22/3/21	Basic Concepts of Microinstruction		
39	23/3/21	Wilkes Control		
40	24/3/21	Microinstruction Sequencing		
41	25/3/21	Microinstruction Execution.		
42	30/3/21	Revision		
43	15/4/21	**Unit-VI:** The Use of Multiple Processors		
44	29/4/21	Symmetric Multiprocessors		
45	3/5/21	Multithreading and Chip Multiprocessors		
46	4/5/21	Clusters		
47	10/5/21	Multicore Organization		
48	11/5/21	Implicit and Explicit Multithreading		
49	12/5/21	Approaches to Explicit Multithreading		
50	17/5/21	Intel x 86 Multicore Organization		
51	18/5/21	Revision		
52	19/5/21	Unit-I & Unit-II Revision		
53	24/5/21	Unit-III & Unit-IV Revision		
54	25/5/21	Unit-V & Unit-VI Revision		

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Execution Plan

Name of Faculty: Prof. A. O. Sable **Subject Code: 6KS06**

Subject Name: PE **Semester: VI** **Year: Third Year** **Section: B**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	21/1/21	UNIT 1:Introduction to PE		
2	27/1/21	New possibilities & A Vacuum of Policies		
3	28/1/21	Computers Used in Social Context		
4	3/2/21	Moral and Legal Issues Utilitarianism		
5	4/2/21	DEONTOLOGICAL THEORIES Need of professional ethics		
6	10/2/21	UNIT 2: Ethics Online		
7	11/2/21	New species of old crime, Netiquette,		
8	24/2/21	Privacy, Computer Ethics		
9	25/2/21	Property rights in computer software		
10	3/3/21	UNIT 3: Accountability,		
11	4/3/21	Buying and Selling Software		
12	10/3/21	Different senses of Responsibility		
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FE Execution Plan

Name of Faculty: Prof. P. P. Kadu **Subject Code: 6FEKS05**

Subject Name: DBMS FE **Semester: VI** **Year: Third Year** **Section:**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	22-01-21	Introduction: Database System Applications,		
2	23-01-21	Purpose of Database Systems, and View of Data,		
3	23-01-21	Database Languages, Database Architecture,		
4	29-01-21	Database Users and Administrators.		
5	30-01-21	Relational Model: Structure of Relational Databases,		
6	30-01-21	Fundamentals of Relational-Algebra.		
7	05-02-21	SQL: Background, Data Definition		
8	06-02-21	Basic Structure of SQL queries, Set Operations,		
9	06-02-21	Aggregate Functions, Null Values, Nested Sub queries,		
10	20-02-21	Complex Queries, Views		
11	20-02-21	Modification of Database, Joined relations.		
12	26-02-21	SQL Data Types and Schemas, Integrity Constraints, Authorization.		
13	27-02-21	Transaction Management: Transaction Concept,		
14	27-02-21	Transaction State, Implementation of Atomicity and Durability		
15	05-03-21	Concurrent Execution,		
16	06-03-21	Serializability,		
17	06-03-21	Recoverability,		
18	12-03-21	Testing for Serializability.		
19	13-03-21	Concurrency Control: Lock-Based Protocols		
20	13-03-21	Timestamp-Based Protocols,		
21	30-04-21	Validation-Based Protocols, Multiple Granularity		
22	07-05-21	Weak Levels of Consistency		
23	08-05-21	Recovery System: Failure Classification,		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	08-05-21	Recovery and Atomicity, Log-Based Recovery.		
25	15-05-21	Database Design: Overview of the Design Process,		
26	15-05-21	Entity-Relationship Model, Constraints,		
27	22-05-21	Entity-Relationship Diagrams,		
28	22-05-21	Reduction to Relational Schemas.		
29	28-05-21	Relational Database Design: Atomic Domains,		
30	29-05-21	Normalization and Normal Forms,		
31	29-05-21	Functional Dependencies,		
32	05-06-21	Decomposition using Functional Dependencies.		
33	05-06-21	Query Processing: Overview, Measures of Query Cost,		
34	11-06-21	Selection Operation, Sorting		
35	12-06-21	Join Operation, Other Operations,		
36	12-06-21	Evaluation of Expressions.		
37	18-06-21	Query Optimization: Overview,		
38	19-06-21	Transformation of Relational Expressions,		
39	19-06-21	Materialized Views.		
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OS Execution Plan

Name of Faculty: Prof. Ms. S. G. Pundkar **Subject Code: 6KS01**

Subject Name: OS **Semester: VI** **Year: Third Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	**19/1/21**	**Unit 1 :** Introduction to OS, Its component and services		
2	20/1/21	Process Concept and Scheduling		
3	21/1/21	Operation on processes		
4	22/1/21	Cooperating process		
5	25/1/212	Inter process communication		
6	27/1/21	Threads		
7	**28/1/21**	**Unit 2 :** Introduction to CPU Scheduling		
8	29/1/21	Problems on FCFS Scheduling algo		
9	1/2/21	Problems on Non-Preemptive SJF Scheduling algo		
10	3/2/21	Problems on Preemptive SJF Scheduling algo		
11	4/2/21	Problems on Priority Based Scheduling algo		
12	5/2/21	Problems on Round Robin Based Scheduling algo		
13	8/2/21	Problems on Round Robin Based Scheduling algo		
14	9/2/21	Problems on Round Robin Based Scheduling algo		
15	10/2/21	Deadlock Concept		
16	8/3/21	Bankers Algo		
17	9/3/21	Problems on Bankers Algo		
18	10/3/21	Problems on Bankers Algo		
19	**12/3/21**	**Unit 3 : Introduction to Memory Mgt**		
20	16/4/21	Paging and Segmentation		
21	29/4/21	Virtual Memory		
22	30/4/21	Demand Paging		
23	3/5/21	Page Replacement Algo :- FIFO		
24	4/5/21	Page Replacement Algo :- LRU		
25	5/5/21	Page Replacement Algo :- Optimal Policy		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
26	6/5/21	**Unit no 4: File System Interface**, its Basic, File attributes, its operation, file types, Access Method, Basic of Directory and its operation, Access Control		
27	07/5/21	**File System Implementation:** File Structure, File Control Block, VFS,Directory Implementation, Allocation Method, Free Space Mgt,		
28	10/5/21	Efficiency and Performance , Recovery, Revision		
29	**11/5/21**	**Unit No: 5 :** I/O System Interface, PC Bus Structure, Interrupts		
30	12/5/21	DMA, Application of I/O Interface and basics of I/O interface		
31	13/5/21	Disk Structure, Disk Scheduling Algo : FCFS		
32	17/5/21	Disk Scheduling Algo:SSTF, SCAN and C-SCAN		
33	18/5/21	Disk Scheduling Algo: LOOK and C-LOOK		
34	19/5/21	Assignment		
35	20/5/21	Problems on Disk Scheduling Algo		
36	21/5/21	Revision on Disk Scheduling Algo		
37	24/5/21	**UNIT 6 :Introduction to Linux System ,** Features, Benefits, History of Linux		
38	25/5/21	Comparison Between Linux vs. Different OS, Installation and Design		
39	27/5/21	Process Mgt, Process Context, Threads ,Scheduling and Memory Mgt.		
40	28/5/21	Device Driver, Interprocess Communication, Network Structure, Security.		
41	31/5/21	conducted quiz on Linux System		
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Execution Plan

Name of Faculty: Dr.Ms. R. R. Tuteja **Subject Code: 6KS02**

Subject Name: DBS **Semester: VI** **Year: Third Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	19.01.21	DBS applications , DBS VS file systems		
2	20.01.21	view of data .database models ,levels of abstraction		
3	21.01.21	database languages ,instances and schemas, data independence		
4	23.01.21	database users and administrator , transaction management		
5	25.01.21	introduction to relational model , the relational model ,		
6	27.01.21	basic structure of relational model , instances and schemas		
7	29.01.21	Relational algebra , select , project , union , set difference , Cartesian product		
8		Relational algebra : rename , banking system examples		
9		examples on relational algebra ,queries		
10		modification of databases , insert ,delete, update , examples		
11		SQL , data definition ,		
12		Basic query structure , set operations ,		
13		Aggregate functions , null values , integrity constraints		
14		Nested Subqueries , examples		
15		Views , modification of the database ,		
16		Joined relations		
17		Domain constraints , referential integrity		
18		Keys , authorizations		
19		ER model , basic concepts ,		
20		Design constraints , keys ,		
21		Design issues ,ER diagram ,		
22		Weak entity sets ,extended ER features ,		
23		Design of ER schema		

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CRM Execution Plan

Name of Faculty: Prof. Ms. R. S. Badre **Subject Code: 6KS03**

Subject Name: CRM **Semester: VI** **Year: Third Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-01-21	**Unit 1 :** Systems Management: Definition, Examples		
2	19-01-21	Building a Business Case for Systems Management		
3	20-01-21	Organizing for Systems Management		
4	21-01-21	Factors to Consider in Designing IT Organizations and		
5	25-01-21	Staffing for Systems Management		
6	27-01-21	IT as Service		
7	28-01-21	IT Service Management		
8	01-02-21	Discussion about the current Business Case Systems		
9	02-02-21	**Unit 2 :** Availability, Methods for Measuring Availability		
10	03-02-21	Seven ' Rs' of High Availability		
11	04-02-21	Performance and Tuning, Definition and characteristics.		
12	08-02-21	Performance and Tuning Applied to the Five Major Resource Environments		
13	15-02-21	**Unit 3 :** Storage Management: Definition, Desired Traits		
14	16-02-21	Storage Management Capacity, Storage Management Performance		
15	17-02-21	Storage Management Reliability		
16	22-02-21	Storage Management Recoverability		
17	23-02-21	Network Management : Definition, Key Decisions about Network Management		
18	24-02-21	Measuring and Streamlining an Infrastructure's Network Management Process.		
19	25-02-21	**Unit 4 :** Capacity Planning: Definition		
20	01-03-21	Reasons for poor Capacity Planning		
21	02-03-21	How to Develop an Effective Capacity Planning Process		
22	03-03-21	Additional Benefits of Capacity Planning, Hints for effective Capacity Planning		
23	04-03-21	Configuration Management, Definition, Examples and benefits		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	08-03-21	Practical Tips for Improving Configuration Management		
25	09-03-21	**Unit 5 :** Strategic Security: Definition		
26	10-03-21	Developing a Strategic Security Process		
27	15-04-21	Steps for Developing a Strategic Security Process		
28	29-04-21	Facilities Management: Definition		
29	03-05-21	Major Elements for Facilities Management		
30	04-05-21	Major Elements Tips, Assessing, Measuring and Streamlining the Facilities Management Process		
31	05-05-21	Group Discussion and Question Answer Session.		
32	06-05-21	Revised topic and Question Answer Session.		
33	10-05-21	**Unit 6 :**Developing Robust Processes		
34	11-05-21	Features of World-Class Infrastructure.		
35	12-05-21	Common Criteria of World-Class Infrastructure.		
36	17-05-21	Characteristics of a Robust Process.		
37	18-05-21	Characteristics of a Robust Process.		
38	19-05-21	Difference between Service and Process metrics		
39	20-05-21	Difference between formal and Informal Process.		
40	24-05-21	Helpful Ground Rules for Brainstorming		
41	25-05-21	Integrating Systems Management Processes		
42	27-05-21	The value of distinguishing Strategic from Tactical Processes		
43	31-05-21	Client-Server Environment Issues, Web-Enabled Environment Issues.		
44	01-06-21	Revised topic and Question Answer Session.		
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Execution Plan

Name of Faculty: Prof. N. S. Khachane **Subject Code: 6KS04**

Subject Name: CA **Semester: VI** **Year: Third Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	19/01/2021	Elements of machine Instruction, Instruction representation		
2	20/01/2021	Instruction Types, Number of addresses		
3	21/01/2021	Instruction set design, Types of Operands		
4	22/01/2021	Intel x86 and ARM data Type		
5	27/01/2021	Types of Operation		
6	28/01/2021	Transfer of Control Instruction		
7	2/2/2021	Intel x86 and ARM operation Type		
8	3/2/2021	Addressing		
9	4/2/2021	X86 Addressing Mode		
10	5/2/2021	ARM Addressing: Load/Store Addressing		
11	9/2/2021	ARM Addressing Modes, Instruction Format: IL, Allocation of Bits		
12	17/2/2021	Instruction Format: PDP8, PDP 10, Variable Length Instruction, PDP11		
13	18/2/2021	ARM Instruction format, Assembly Language, Processor Organization		
14	22/02/2021	Register Organization: User visible, Control and status registers		
15	23/02/2021	Example microprocessor register organization, Instruction cycle		
16	24/02/2021	Pipeline performance, pipeline Hazards		
17	25/02/2021	Dealing with Branch : Loop buffer, Branch prediction, Delayed branch		
18	26/02/2021	Intel 80486 pipelining, Register organization, EFLAG registers		
19	2/3/2021	Control Register, MMX register, Interrupt processing, IVT, Interrupt Handling		
20	3/3/2021	ARM processor		
21	4/3/2021	Discussion on previous unit points		
22	5/3/2021	Instruction Execution Characteristics		
23	12/3/2021	The use of Large register file, compiler based register optimization		

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
24	15/04/2021	Reduced instruction set architecture		
25	29/04/2021	Optimization of pipelining, RICS vs. CISC controversy		
26	30/04/2021	Micro operation: fetch, Indirect, Interrupt, execute and Instruction cycle		
27	4/5/2021	Control of the processor: functional requirement, control signal, Internal processor organization,		
28	5/5/2021	Intel 8085, Hardwired Implementation		
29	6/5/2021	Basic Concept, micro programmed control unit, Wilkes control		
30	7/5/2021	Microinstruction Sequencing, Microinstruction Execution		
31	11/5/2021	Microinstruction Execution, Microinstruction Encoding		
32	12/5/2021	Discussion on previous unit points		
33	13/5/2021	Types of parallel processor system, parallel organization		
34	14/5/2021	Symmetric multiprocessor, organization		
35	19/5/2021	multiprocessor operating system design consideration, Implicit and Explicit multithreading		
36	20/5/2021	Approaches to Explicit multithreading, Cluster, Cluster configuration		
37	21/5/2021	Operating system design issues, Cluster computer architecture		
38	25/5/2021	Multicore Organization, Intel x 86 Multi-Core Organization		
39	27/5/2021	Discussion on Unit -1 topics		
40	28/5/2021	Discussion on Unit -2 topics		
41	1/6/2021	Discussion on Unit -3 topics		
42	2/6/2021	Discussion on Unit 4 topics		
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PE Execution Plan

Name of Faculty: Prof. P. P. Kadu **Subject Code: 6KS06**

Subject Name: PE **Semester: VI** **Year: Third Year** **Section: C**

Sr. No	Date	Topics to be Covered	Sign. of Faculty	Sign. of HOD
1	18-01-21	Introduction: Computers in a Social Context, Moral and Legal Issues. Computer Ethical Issues.		
2	21-01-21	Philosophical Ethics: Descriptive and Normative Claims, Ethical Relativism, Utilitarianism,		
3	25-01-21	Deontological Theories, Rights, Virtue Ethics, Individual and Social Policy Ethics. Professional Ethics		
4	28-01-21	Characteristics and system of Professions, Computing as Profession,		
5	01-02-21	Professional Relationships, Conflicting Responsibilities,		
6	02-02-21	Code of Ethics and Professional Conduct, Collective responsibility.		
7	04-02-21	Ethics and The Internet: Three Morally Significant Characteristics		
8	08-02-21	Hacking and Hacker Ethics,		
9	15-02-21	New Species of Old Crime, Netiquette, And Policy Approaches		
10	16-02-21	Computers and Privacy issues, Legislative Background,		
11	18-02-21	Global Perspective, Proposals for Better Privacy Protection.		
12	25-02-21	Property Rights in Computer Software: Definitions, Current Legal Protection,		
13	01-03-21	Philosophical basis and analysis of Property, Proprietary Software, and Software Copying.		
14	04-03-21	Accountability, Computer and Information Technology: Different Senses of Responsibility,		
15	24-05-21	Buying and Selling Software, Y2K Problem, Diffusion of Accountability,		
16	27-05-21	Internet Issues, ISP Liability, and Virtual Action.		
17	31-05-21	Technology and Social change, Embedded Values		
18	03-06-21	Enhanced and Impeded Values, Democratic Values in the Internet,		
19	07-06-21	Internet as Democratic, Technology, Access and the Digital Divide,		
20	10-06-21	Free Expression, Overarching and Future Issues.		
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Execution Plan

Name of Faculty: Prof. A.M.Karale **Subject Code: 3KS01** **Section: A**

Subject Name: M-III **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	9:00 to10:00	UNIT 1:Introduction and method to find CF		
2	18/08/20	11.30 to 12.30	Method to find PI Case-1		
3	20/08/20	11.30 to 12.30	Method to find PI Case-2		
4	24/08/20	9:00 to 10:00	Method to find PI Case-3		
5	25/08/20	11.30 to 12.30	Method to find PI Case-4		
6	27/08/20	11.30 to 12.30	General method and VOP		
7	31/08/20	9:00 to 10:00	Cauchy's Linear Differential Equation		
8	02/09/20	10:00 to 11:00	Legender's Linear Differential Equation		
9	03/09/20	11.30 to 12.30	UNIT 2: Definition and Properties of Laplace Transform		
10	07/09/20	9:00 to 10:00	Examples on Laplace Transform		
11	08/09/20	11.30 to 12.30	Definition of Inverse Laplace Transform		
12	09/09/20	10:00 to 11:00	Examples on Inverse Laplace Transform		
13	10/09/20	11.30 to 12.30	Examples on Inverse Laplace Transform		
14	14/09/20	9:00 to 10:00	Periodic Function		
15	15/09/20	11.30 to 12.30	UNIT 3 A:-Solution of LDE by Laplace Transform Method		
16	16/09/20	10:00 to 11:00	Simultaneous DE by Laplace Transform		
17	21/09/20	9:00 to 10:00	B:-Examples On Fourier Integral		
18	22/09/20	11.30 to 12.30	Examples on Fourier Sine and Cosine integral		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
19	24/09/20	11.30 to 12.30	Examples on Fourier Sine and Cosine		
20	28/09/20	9:00 to 10:00	UNIT4 PDE: Definition of PDE,Type 1		
21	29/09/20	11.30 to 12.30	F(p,q,z)=0		
22	30/09/20	10:00 to 11:00	f(x,p)=g(y,q))		
23	01/10/20	11.30 to 12.30	Lagrange's Form		
24	05/10/20	9:00 to 10:00	Lagrange's Form		
25	06/10/20	11.30 to 12.30	Clairaut's Equation		
26	07/10/20	10:00 to 11:00	Reducible to PDE		
27	08/10/20	11.30 to 12.30	Statistics:Curve fitting by Line		
28	13/10/20	11.30 to 12.30	Curve fitting by Parabola		
29	15/10/20	11.30 to 12.30	Coefficients by Correlation		
30	19/10/20	9:00 to 10:00	Line of Regression		
31	20/10/20	11.30 to 12.30	UNIT 6 Vector Gradient of Scalar function		
32	21/10/20	10:00 to 11:00	Directional Derivative		
33	22/10/20	11.30 to 12.30	Directional Derivative		
34	03/11/20	11.30 to 12.30	Divergence and curl		
35	04/11/20	10:00 to 11:00	Line Integral		
36	05/11/20	11.30 to 12.30	Surface and Volume Integral		
37	23/11/20	9:00 to 10:00	Irrotational and Solenoidal Field		
38	24/11/20	11.30 to 12.30	UNIT-5 Definition of Complex Number and Analytic Function		
39	25/11/20	10:00 to 11:00	Polar Form and Harmonic Function		
40	02/12/20	10:00 to 11:00	Examples on real or imaginary part given		
41	03/12/20	11.30 to 12.30	Bilinear Transformation		
42	07/12/20	9:00 to 10:00	Taylor's Series		
43	08/12/20	11.30 to 12.30	Laurent's Series		

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Department of Computer Science & Engineering

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Execution Plan

Name of Faculty: Prof. Ms. P. N. Deshmukh **Subject Code: 3KS02** **Section: A**

Subject Name: DSGT **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/2020	10 to 11	Unit I: Introduction to logic and Proofs, Propositions, Propositional variables, Truth Tables, Compound and Simple Propositions .		
2	20/08/2020	10 to 11	Notations, Logical Operators: Negation , Conjunction , Disjunction ,Conditional , Bi-conditional ,exclusive or, Truth Tables of logical operators.		
3	21/08/2020	9 to 10	Conditional statements, Truth Table of Compound Propositions, Examples, Precedence of Logical operators.		
4	24/08/2020	10 to 11	Logic and Bit operations, Examples, Applications of Propositional logic, translating English Sentences.		
5	27/08/2020	10 to 11	Logical Equivalences, De Morgan's Laws		
6	28/08/2020	9 to 10	Problems based on Logical Equivalences, Introduction to Predicates and examples.		
7	31/08/2020	10 to 11	Precondition and Post condition Predicates and example, Quantifiers ,Introduction to Universal Quantifiers and Problems based on Universal Quantifiers		
8	2/09/2020	12.30 to 1.30	Quantifiers: Restricted Domains, Precedence, Binding Variables.		
9	3/09/2020	10 to 11	Logical Equivalences involving quantifiers, Rules of Inference: Valid Argument in Propositional logic.		
10	4/09/2020	9 to 10	Rules of Inference for Propositional Logic, Use to Build Arguments.		
11	7/09/2020	10 to 11	Rules of Inference for Quantified Statements, Use to Build Arguments, Resolution, Combination for Propositions and Quantified Statements		
12	9/09/2020	12.30 to 1.30	Combination for Propositions and Quantified Statements Proofs Terminology, Methods, Direct Proofs, Proof by Contraposition and Contradiction		
13	10/09/2020	10 to 11	Unit II : Introduction, Venn Diagrams, Subsets, Size of a Set, Power Sets.		
14	11/09/2020	9 to 10	Size of a Set, Power Sets, Cartesian Products, Set Notation with Quantifiers, Truth Sets and Quantifiers.		
15	14/09/2020	10 to 11	Set Operation Intersection, Union ,Difference, Compliment ,disjoint and Problems based on Set operation:		
16	16/09/2020	12.30 to 1.30	Set operation, Set identities methods.		
17	18/09/2020	9 to 10	Generalized unions and intersections		
18	21/09/2020	10 to 11	Functions : Definition , examples		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
19	23/09/2020	12.30 to 1.30	Functions: definition of sum of product and example, definition of function on subset and examples, definition of injective, surjective and bijective and Problem based on types of function.		
20	24/09/2020	10 to 11	Functions: Inverse Functions, Compositions and Graphs of Functions and problems		
21	25/09/2020	9 to 10	Some Important Functions,Ceiling and floor function, Partial Functions; Sequences: definition Arithmetic and Geometric progression.		
22	28/09/2020	10 to 11	Recurrence Relation		
23	30/09/2020	12.30 to 1.30	Special Integer Sequences, Summations; Countable Sets, An Uncountable Set;		
24	1/10/2020	10 to 11	Functions as Relations, Relations on a Set, Properties of Relations, Combining Relations;		
25	5/10/2020	10 to 11	Composite relation, n-ary Relations, Operations on n-ary Relations; Representing Relations Using Matrices		
26	7/10/2020	12.30 to 1.30	Representing Relations Using Matrices and Problem based; Closures,		
27	8/10/2020	10 to 11	Closures, Transitive Closures		
28	9/10/2020	9 to 10	Unit IV : Algebraic Systems: Examples and General Properties;		
29	14/10/2020	12.30 to 1.30	Semigroups and Monoids and Examples		
30	16/10/2020	9 to10	Homomorphism of Semigroups and Monoids, Subsemigroups and Submonoids; Groups: Definitions, Subgroups and Homomorphisms,		
31	19/10/2020	10 to11	Cosets and Lagrange‟s Theorem, Problems based		
32	21/10/2020	12.30to 1.30	Normal Subgroups, algebraic Systems with Two Binary Operations.		
33	22/10/2020	10 to 11	Ring, Substring,Ring Homomorphism,		
34	23/10/2020	9 to 10	Unit III : Division, The Division Algorithm, Modular Arithmetic		
35	2/11/20220	10 to 11	Arithmetic Modulo m and Examples.		
36	4/11/2020	12.30 to 1.30	Primes, Trial Division, Conjectures and Open Problems About Primes		
37	5/11/2020	10 to 11	GCD and LCM		
38	6/11/2020	9 to 10	The Euclidean Algorithm, gcds as Linear Combinations;		
39	23/11/2020	10 to 11	Linear Congruences, The Chinese Remainder Theorem		
40	25/11/2020	12.30 to 1.30	Fermat‟s Little Theorem, Pseudoprimes, Primitive Roots and Discrete Logarithms		
41	26/11/2020	10 to 11	Unit V: Counting: Basic Counting Principles, Product rule, sum rule.		
42	27/11/2020	9 to 10	Complex Counting Problems,		
43	2/12/2020	12.30 to 1.30	Substraction Rule and Division Rule		
44	3/12/20220	10 to 11	The Pigeonhole Principle, The Generalized Pigeonhole Principle, Applications;		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
45	4/12/2020	9 to 10	Permutations, Combinations,		
46	7/12/2020	10 to 11	Generating Permutations		
47	9/12/2020	12.30 to 1.30	Generating Permutations, Generating Combinations.		
48	10/12/2020	10 to 11	Unit VI: Graph Models;		
49	11/12/2020	9 to 10	Basic Terminology Special Simple Graphs,		
50	14/12/2020	12.30 to 1.30	Bipartite Graphs, Matchings, Applications of Special Types of Graphs, New Graphs from Old; Graph Representation, Adjacency and Incidence Matrices,		
51	16/12/2020	12.30 to 1.30	Isomorphism of Graphs, Determining Isomorphism; Paths, Connectedness in Undirected Graphs and Directed Graphs,		
52	17/12/2020	12.30 to 1.30	Paths and Isomorphism, Counting Paths Between Vertices; Euler Paths and Circuits		

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OOP Execution Plan

Name of Faculty: Prof. Ms. K. H. Deshmukh **Subject Code: 3KS03** **Section: A**

Subject Name: OOP **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	12:30-1:30	**Unit 1:** Introduction to Object Oriented Programming, basic components of OOP.		
2	18/8/2020	10:00-11:00	Principles of Object-Oriented Languages Procedural Language Vs OOP		
3	20/8/2020	9:00-10:00	Java Essentials(JVM,JRE,JDK), Basic Structure of JAVA Program. Java Features - Platform Independent,Object oriented, Compiled and interpreted, Robust.		
4	21/8/2020	11:30-12:30	Java Features - Security (Strictly typed language, Lack of pointers, Garbage collection, Strict compile time checking, Sandbox security, Multithreadedand some other features.		
5	24/8/2020	12:30-1:30	Java Programming Constructs like Variables, Primitive data types, Identifier, Literals, Arithmetic operator, assignment operator, Relational Operator, boolean operator.		
6	25/8/2020	10:00-11:00	Bitwise Operator, Expressions, Precedence Rules and Associativity, Primitive Type Conversion and Casting.		
7	27/8/2020	9:00-10 :00	Flow of Control:Conditional Statements, Loops with JAVA Program demonstration.		
8	28/8/2020	11:30-12:30	Flow of Control: branching statement with JAVA Program demonstration.		
9	31/8/2020	12:30-1:30	**Unit 2:** Basic concepts of Classes and Objects with creating objects in programming examples.		
10	3/9/2020	9:00-10 :00	Concept of Methods, writing method and Method Overloading with programming examples.		
11	4/9/2020	11:30-12:30	Constructor, Parameterized Constructor with programming examples.		
12	7/9/2020	12:30-1:30	Method vs Constructor, Constructor Overloading with programming examples.		
13	8/9/2020	10:00-11:00	'this' keyword, Constructor chaining, Garbage Collection Concept.		
14	10/9/2020	9:00-10 :00	'static' keyword, Instance vs Class Variables, static methods, static block.		
15	11/9/2020	11:30-12:30	Array, use of for each, Command Line Argument with programming examples.		
16	15/9/2020	10:00-11:00	**Unit 3:** Basics of Inheritance, Inheritance vs Aggregation, types of Inheritance		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
17	18/9/2020	11:30-12:30	Method Overriding with programming examples, Late Binding Early Binding.		
18	21/9/2020	12:30-1:30	'super' keyword, use of super keyword to access variables, methods and constructor of parent class, 'final' keyword.		
19	22/9/2020	10:00-11:00	Concept of Abstract class and Interface with programming examples, Abstract class vs Interface.		
20	24/9/2020	9:00-10 :00	Java Packages, java.lang package, Concept of Wrapper Classes Converting Primitive types to wrapper objects and vice versa.		
21	25/9/2020	11:30-12:30	Autoboxing, Unboxing, Converting primitives to String Object and vice versa.		
22	28/9/2020	12:30-1:30	String class, StringBuffer class, Enum Type.		
23	29/9/2020	10:00-11:00	**Unit 4:** Exception Introduction, Exception Handling Techniques - Try-catch, throw, throws.		
24	1/10/2020	9:00-10:00	Exception Handling Techniques Finally, User Defined Exception with Example,		
25	5/10/2020	12:30-1:30	Exception Encapsulation, Exception Enrichment, Assertion with example.		
26	6/10/2020	10:00-11:00	Logging Levels of Logging, Java Stream classes (Byte, character).		
27	8/10/2020	9:00-10:00	Reading and Writing using Byte Stream classes, Reading and Writing using Character Stream.		
28	9/10/2020	11:30-12:30	Randomly accessing files, Java BufferedReader class, Scanner class.		
29	12/10/2020	12:30-1:30	Console class, Serialization and Deserialization with Example.		
30	16/10/2020	11:30-12:30	**Unit 5:** Applet: Introduction to Applet, Difference between Applet and Application Program, first Applet Program.		
31	19/10/2020	12:30-1:30	Applet Life cycle and it's methods, Common Methods used in displaying the output,		
32	20/10/2020	10:00-11:00	Methods like paint (), update () and repaint ().		
33	22/10/2020	9:00-10:00	More about applet tag, getDocumentBase() and getCodeBase () methods		
34	23/10/2020	11:30-12:30	Applet Context Interface, Audio clip		
35	03/11/2020	10:00-11:00	Graphic Class, Color, Font, Font Metrics.		
36	05/11/2020	9:00-10:00	**Unit VI:** Introduction, Event delegation Model, java.awt.event Description		
37	06/11/2020	11:30-12:30	Sources of events, Event Listeners		
38	23/11/2020	12:30-1:30	Adapter classes, Inner Classes.		
39	24/11/2020	10:00-11:00	Abstract Window Toolkit: Introduction, Components and Containers, Button, Label,		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
40	26/11/2020	9:00-10:00	Checkbox, Radio Buttons, List Boxes		
41	27/11/2020	11:30-12:30	Choice Boxes, Text field and Textarea		
42	3/12/2020	9:00-10:00	Container Class, Layouts		
43	4/12/2020	11:30-12:30	Menu Bar, Scrollbar		
44	7/12/2020	12:30-1:30	Revision of Unit 1 with discussion of university question paper and its solutions.		
45	8/12/2020	10:00-11:00	Revision of Unit 2 with discussion of university question paper and its solutions.		
46	10/12/2020	9:00-10:00	Revision of Unit 3 with discussion of university question paper and its solutions.		
47	11/12/2020	11:30-12:30	Revision of Unit 4 with discussion of university question paper and its solutions.		
48	14/12/2020	12:30-1:30	Revision of Units 5,6 with discussion of university question paper and its solutions.		

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Execution Plan

Name of Faculty: Prof. N. S. Khachane **Subject Code: 3KS04** **Section: A**

Subject Name: DS **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	11:30-12:30	Introduction to Data Structure		
2	18/8/2020	12:30-1:30	Algorithmic Notation		
3	21/8/2020	12:30-1:30	Complexity of Algorithm		
4	24/8/2020	11:30-12:30	String Processing : Storing string, character data type		
5	25/8/2020	12:30-1:30	String Processing , Word Processing		
6	28/8/2020	12:30-1:30	Pattern Matching : First Pattern matching		
7	31/8/2020	11:30-12:30	Second Pattern Matching		
8	02/9/2020	9:00-10:00	Second Pattern Matching		
9	04/9/2020	12:30-1:30	Linear arrays and their representation in memory		
10	07/9/2020	11:30-12:30	Traversing linear arrays, inserting Operation		
11	08/9/2020	12:30-1:30	deleting operations, Bubble sort		
12	09/9/2020	9:00-10:00	Searching : Linear Search, Binary Search		
13	11/9/2020	12:30-1:30	Multidimensional Array, General Multidimensional Array		
14	14/9/2020	11:30-12:30	Pointer, Pointer Array, Matrices		
15	16/9/2020	10:00-111:00	Record, Record Structure		
16	18/9/2020	12:30-1:30	Linked List, Representation of Linked list in memory, Traversing a linked list		
17	21/9/2020	11:30-12:30	Searching a linked list		
18	22/9/2020	12:30-1:30	Memory Allocation;Garbage Collection, Overflow, Underflow		
19	23/9/2020	9:00-10:00	Insertion at the beginning of list		
20	25/9/2020	12:30-1:30	Inserting after given node		
21	28/9/2020	11:30-12:30	inserting in sorted linked list		
22	29/9/2020	12:30-1:30	deleting the node following a given node		
23	30/9/2020	12:30-1:30	deleting the node with given item of information		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	05/10/2020	11:30-12:30	Header Linked List, Two-way List		
25	06/10/2020	12:30-1:30	Inserting, Deleting		
26	07/10/2020	9:00-10:00	Stack, Array Representation Stack, PUSH, POP, Linked Representation Stack		
27	09/10/2020	12:30-1:30	,Linked Representation Stack, PUSH,POP		
28	12/10/2020	11:30-12:30	Evaluation of Postfix Expression, Converting Infix to Postfix Expression		
29	13/10/2020	12:30-1:30	Recursion: Factorial, Ackermann function		
30	16/10/2020	12:30-1:30	Tower of Hanoi		
31	19/10/2020	11:30-12:30	Quick Sort		
32	20/10/2020	12:30-1:30	Quick Sort		
33	21/10/2020 10	9:00 - 10:00	Queue, Representation of queue , Insertion, Deletion		
34	23/10/2020	12:30-1:30	Dequeue and Priority Queue		
35	03/11/2020	12:30-1:30	Tree, Binary Tree, Representation of binary tree		
36	04/11/2020	09:00-10:00	Traversing Binary Tree, Header Node		
37	06/11/2020	12:30-1:30	Traversal Algorithm using STACK		
38	23/11/2020	11:30 - 12:30	Binary Search Tree, Searching		
39	24/11/2020	12:30-1:30	Inserting and deleting		
40	25/11/2020	09:00-10:00	Heap and heapsort,		
41	26/11/2020	11:30 - 12:30	Path length & Huffman‟s algorithm.		
42	02/12/2020	10:00 - 11:00	Graph, memory representation of graph, BFS		
43	04/12/2020	12:30-1:30	Breadth first Search, Depth First Search		
44	07/12/2020	11:30 - 12:30	Insertion Sort, Selection Sort		
45	07/12/2020	12:30-1:30	Radix Sort		
46	08/12/2020	12:30-1:30	Shortest Path Algorithm		
47	09/12/2020	9:00 - 10:00	Linked Representation of graph, operation on graph		
48	11/12/2020	12:30-1:30	Ask the difficulties to students		

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Execution Plan

Name of Faculty: Prof. Ms. A. B. Pahurkar **Subject Code: 3KS05** **Section: A**

Subject Name: ADE **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	18/8/20	9 to 10 am	Unit 1: Basics of Semiconductors		
2	21/8/20	10 to 11 am	Introduction to P-N junction diode		
3	25/08/20	9 to 10 am	Working of p-n junction diode		
4	28/8/20	10 t0 11 am	V-I characteristics of P-N junction diode and parameters		
5	29/8/20	12 to 1 pm	Introduction and working of transistor		
6	02/9/20	11:30 to 12:30	CB, CE, and CC configuration of transistor		
7	04/9 20	10 to 11 am	Characteristics of CB CE and CC configuration		
8	05/9/20	12 to 1 pm	Numericals (2 lectures)		
9	8/9/20	9 to 10 am	Unit 2: Introduction and working of JFET		
10	9/9/20	11:30 to 12:30	Drain and Transfer Characteristics of JFET		
11	11/9/20	10 to 11 am	Numericals and Parameters of FET		
12	12/9/20	12 to 1 pm	Construction and working of Depletion MOSFET		
13	15/09/20	9 to 10 am	Working of Enhancement type of MOSFET		
14	16/09/20	11:30 to 12:30	Introduction and Construction of CMOS		
15	18/09/20	10 to 11 am	Design of different logic gates using CMOS		
16	22/9/20	9 to 10 am	Unit 3: Decimal and Binary number systems		
17	23/9/20	11:30 to 12:30	2's and 1's complement subtraction		
18	25/9/20	10 to 11 am	Numericals on 1's and 2's complement subtraction		
19	26/9/20	12 to 1 Pm	Octal to Binary and binary to octal conversion		
20	29/09/20	9 to 10 am	Hexadecimal Conversion		
21	30/09/20	10 to 11 am	Computer Codes (BCD and Gray)		
22	03/10/20	12 to 1 pm	Excess 3 and other computer codes		
23	06/10/20	9 to 10 am	ASCII code and EBCDIC code		
24	7/10/20	11:30 to 12:30	Unit 4: Introduction to logic gates and Boolean theorem		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	09/10/20	9 to 10 am	Minimization of boolean expression using boolean theorem		
26	10/10/20	12 to 1 pm	Examples using boolean theorem		
27	14/10/2020	11:30 to 12:30	Implementation of boolean expression using logic gates and truth table		
28	17/10/2020	12 to 1 pm	SOP and POS form representation		
29	20/10/2020	9 to 10 am	Realization using SOP and POS form		
30	21/10/2020	11:30 to 12:30	Introduction to K -Map technique		
31	23/10/2020	10 to 11 am	Examples on K-Map technique		
32	24/10/2020	12 to 1 pm	Examples on K map using truth table		
33	3/11/2020	9 to 10 am	K-map using don't care condition		
34	4/11/2020	11:30 to 12:30	Tabulation method		
35	6/11/2020	10 to 11 am	Examples on tabulation method		
36	7/11/2020	12 to 1 pm	Examples on Five variable k-map		
37	24/11/2020	9 to 10 am	Unit 5: Introduction to adder and subtractor		
38	25/11/2020	11:30 to 12:30	N bit parallel adder and BCD Adder		
39	27/11/2020	10 to 11 am	Comparator and Parity generator		
40	28/11/2020	12 to 1 pm	Multiplexer and demultiplexer		
41	2/12/2020	9 to 10 am	PLA and ROM		
42	4/12/2020	10 to 11 am	Unit 6: Introduction to flip-flop, S R flip flop		
43	5/12/2020	12 to 1 pm	J K Flip Flop, Master J K flip Flop, T and D type Flip Flop		
44	8/12/2020	9 to 10 am	Shift Register and bidirectional shift register		
45	9/12/2020	11:30 to 12:30	Ring counter, Twisted ring counter, BCD counter		
46	11/12/2020	10 to 11 am	Up/Down counter, Mod counter		

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Execution Plan

Name of Faculty: Prof. Ms. R. V. Deshmukh **Subject Code: 3KS01** **Section: B**

Subject Name: M-III **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	10 am	**UNIT 1**:Introduction and method to find CF		
2	20/08/20	9am	Method to find PI Case-1		
3	21/08/20	11:30am	Method to find PI Case-2		
4	24/08/20	10am	Method to find PI Case-3		
5	27/08/20	9am	Method to find PI Case-4		
6	28/08/20	11:30	General method and VOP		
7	31/08/20	10 am	Cauchy's Linear Differential Equation		
8	02/09/20	9 am	Legender's Linear Differential Equation		
9	03/09/20	9 am	**UNIT 2**: Definition and Properties of Laplace Transform		
10	04/09/20	11:30am	Examples on Laplace Transform		
11	07/09/20	10 am	Definition of Inverse Laplace Transform		
12	09/09/20	9 am	Examples on Inverse Laplace Transform		
13	10/09/20	9am	Examples on Inverse Laplace Transform		
14	11/09/20	11:30am	Periodic Function		
15	14/09/20	10am	**UNIT 3** Solution of LDE by Laplace Transform Method		
16	16/09/20	9am	Simultaneous DE by Laplace Transform		
17	18/09/20	11;30	**UNIT4** PDE: Definition of PDE,Type 1 f(p,q)=0		
18	21/09/20	10 am	F(p,q,z)=0		
19	23/09/20	9am	f(x,p)=g(y,q))		
20	24/09/20	9 am	Lagrange's Form		
21	25/09/20	11:30	Lagrange's Form		
22	28/09/20	10am	Clairaut's Equation		
23	30/09/20	9am	Reducible to PDE		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	01/10/20	9am	**Statistics**:Curve fitting by Line		
25	05/10/20	10am	Curve fitting by Parabola		
26	07/10/20	9am	Coefficients by Corelation		
27	08/10/20	9am	Line of Regression		
28	09/10/20	11:30	**UNIT-5** Definition of Complex Number and Analytic Function		
29	16/10/20	11:30	Polar Form and Harmonic Function		
30	19/10/20	10am	Harmonic Function		
31	21/10/20	9 am	Examples on real or imaginary part given		
32	22/10/20	9am	Examples on u-v and u+v		
33	23/10/20	11:30am	Bilinear Transformation		
34	04/11/20	9am	Taylor's Series		
35	05/11/20	9am	Taylor's Series		
36	06/11/20	11:30am	Laurent's Series		
37	23/11/20	10 am	***UNIT 6 Vector Analysis***		
38	25/11/20	9am	Gradient of Scalar function		
39	26/11/20	9am	Directional Derivative		
40	27/11/20	11:30am	Directional Derivative		
41	02/12/20	9am	Divergence and curl		
42	03/12/20	9am	Line Integral		
43	04/12/20	11:30	Surface and Volume Integral		
44	07/12/20	10am	Irrotational and Solenoidal Field		
45	09/12/20	9am	***Unit 3 Fourier Transform***		
46	10/12/20	9am	Examples On Fourier Integral		
47	11/12/20	11:30am	Examples on Fourier Sine and Cosine integral		
48	14/12/20	10am	Examples on Fourier Sine and Cosine Transform		

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Execution Plan

Name of Faculty: Prof. Ms. S. G. Taley **Subject Code: 3KS02** **Section: B**

Subject Name: DSGT **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	12:30-1:30	Unit I: The Foundations: Logic & Proofs : Propositions, Compound Statement,Logical Connectives		
2	18/08/20	10-11	Logical Connectives, Truth Tables		
3	20/08/20	12:30-1:30	Compound Propositions, Logical Operators, Logic and Bit Operations		
4	24/08/20	12:30-1:30	Logical Equivalences, De Morgan's Laws		
5	25/08/20	10-11	Problems based on Logical Equivalence		
6	27/08/20	12:30-1:30	Duality Law, Tautology, Contradiction, Contingency		
7	29/08/20	12-1	Predicates, Quantifiers: Restricted Domains, Precedence		
8	31/08/20	12:30-1:30	Logical Equivalences, Rules of Inference for Propositional Logic		
9	01/09/20	10-11	Use to Build Arguments, Resolution,		
10	03/09/20	12:30-1:30	Combination for Propositions and Quantified Statements		
11	05/09/20	12-1	Proofs Terminology, Methods, Direct Proofs & Problems		
12	07/09/20	12:30-1:30	Proof by Contraposition and Contradiction & Problems		
13	08/09/20	10-11	Unit II: Introduction, Venn Diagrams		
14	10/09/20	12:30-1:30	Subsets, Size of a Set, Power Sets, Cartesian Products		
15	12/09/20	12-1	Set Notation with Quantifiers, Truth Sets and Quantifiers		
16	14/09/20	12:30-1:30	Set Operations		
17	15/09/20	10-11	Set Identities		
18	21/09/20	12:30-1:30	Generalized Unions and Intersections, Computer representation of Sets		
19	22/09/20	10-11	Function: one -to-one, onto, bijection function		
20	24/09/20	12:30-1:30	Inverse Functions, Compositions and Graphs of Functions		
21	26/09/20	12-1	Important Functions, Partial Functions; Sequences, Recurrence Relations		
22	28/09/20	12:30-1:30	Special Integer Sequences, Summations		
23	29/09/20	10-11	Countable Sets, An Uncountable Set; Functions as Relations,		
24	01/10/20	12:30-1:30	Relations on a Set, Properties of Relations, Combining Relations;		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	03/10/20	12-1	n-ary Relations, Operations on n- ary Relations; Representing Relations Using Matrices;		
26	05/10/20	12:30-1:30	Closures, Transitive Closures		
27	06/10/20	10-11	Unit IV: Algebraic Systems: Examples and General Properties		
28	08/10/20	12:30-1:30	Semigroups and Monoids: Homomorphism of Semigroups and Monoids		
29	10/10/20	12-1	Subsemigroups and Submonoids		
30	12/10/20	12:30-1:30	Groups: Definitions, Subgroups and Homomorphisms		
31	15/10/20	12:30-1:30	Cosets and Lagrange‟s Theorem		
32	2/11/20	12:30-1:30	Normal Subgroups, algebraic Systems with Two Binary Operations.		
33	3/11/20	10-11	Unit III: Number Theory and Induction Division, The Division Algorithm, Modular Arithmetic, Arithmetic Modulo m		
34	5/11/20	12:30-1:30	Primes, Trial Division, Conjectures and Open Problems About Primes, GCD and LCM, The Euclidean Algorithm		
35	7/11/20	12-1	Gcds as Linear Combinations, Linear Congruences, The Chinese Remainder Theorem		
36	23/11/20	12:30-1:30	Fermat‟s Little Theorem, Pseudoprimes, Primitive Roots and Discrete Logarithms, Applications: Hashing Functions		
37	24/11/20	10-11	Mathematical Induction and Examples of Proofs, Mistaken Proofs		
38	26/11/20	12:30-1:30	Guidelines for Proofs; Strong Induction, Examples of Proofs		
39	28/11/20	12-1	Unit V: Counting Basic Counting Principles, Complex Counting Problems		
40	30/11/20	12:30-1:30	Subtraction and Division Rule, The Pigeonhole Principle,		
41	3/12/20	12:30-1:30	The Generalized Pigeonhole Principle, Applications		
42	4/12/20	1:30-2:30	Permutations, Combinations		
43	5/12/20	12-1	Generating Permutations		
44	7/12/20	12:30-1:30	Generating Combinations.		
45	8/12/20	10-11	Unit VI: Graph Graph Models; Basic Terminology, Special Simple Graphs, Bipartite Graphs, Matchings		
46	10/12/20	12:30-1:30	Applications of Special Types of Graphs, New Graphs from Old, Graph Representation, Adjacency and Incidence Matrices		
47	12/12/20	12-1	Isomorphism of Graphs, Determining Isomorphism		
48	14/12/20	12:30-1:30	Paths, Connectedness in Undirected Graphs and Directed Graphs, Paths and Isomorphism, Counting Paths Between Vertices;		
49	15/12/20	12:30-1:30	Euler Paths and Circuits, Hamilton Paths and Circuits		
50	17/12/20	12:30-1:30	Applications of Hamilton Circuits; Planar Graphs		
51	18/12/20	12:30-1:30	Euler‟s Formula, Kuratowski‟s Theorem		
52	19/12/20	12-1	Graph Coloring: Introduction, Applications of Graph Colorings		

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Execution Plan

Name of Faculty: Prof. Ms. R. A. Meshram **Subject Code: 3KS03** **Section: B**

Subject Name: OOP **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	18/8/2020	9-10	**Unit I:** Introduction to Object Oriented Programming, basic components of OOP.		
2	20/8/2020	11:30-12:30	Principles of Object-Oriented Languages Procedural Language Vs OOP		
3	21/8/2020	10:00-11:00	Java Essentials(JVM,JRE,JDK), BAsic Structure of JAVA Program. Java Features - Platform Independent,Object oriented, Compiled and interpreted, Robust.		
4	25/8/2020	9:00-10:00	Java Features - Security (Strictly typed language, Lack of pointers, Garbage collection, Strict compile time checking, Sandbox security, Multithreadedand some other features.		
5	27/8/2020	11:30-12:30	Java Programming Constructs like Variables, Primitive data types, Identifier, Literals,		
6	28/8/2020	10:00-11:00	Arithmetic operator, assignment operator, Relational Operator, boolean operator.		
7	02/9/2020	12:30-1:30	Bitwise Operator, Expressions, Precedence Rules and Associativity, Primitive Type Conversion and Casting.		
8	03/9/2020	11:30-12:30	Flow of Control: Conditional Statements, Loops with JAVA Program demonstration.		
9	04/9/2020	10:00-11:00	Flow of Control: branching statement with JAVA Program demonstration.		
10	08/9/2020	9:00-10:00	**Unit II:** Basic concepts of Classes and Objects with creating objects in programming examples.		
11	09/9/2020	12:30-1:30	Concept of Methods, writing method in java programming examples.		
12	10/9/2020	11:30-12:30	Method Overloading with programming examples.		
13	11/9/2020	10:00-11:00	Constructors & it's types with program		
14	12/9/2020 (E)	11:00-12:00	Difference between constructor & method, Cleaning up Unused Objects, Class Variable and Methods		
15	15/9/2020 2	9:00-10:00	this keyword & its program		
16	15/9/2020	12:30-1:30	Static variable & static methods with programming		
17	18/9/2020	10:00-11:00	Arrays (1-D,2-D), Command Line Arguments.		
18	22/9/2020	9:00-10:00	**Unit III:** Inheritance: Inheritance vs. Aggregation, Method Overriding		
19	23/9/2020	12:30-1:30	super keyword in inheritance, super keyword with method overriding		
20	24/9/2020	11:30-12:30	super keyword with variables & constructors		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
21	25/9/2020	10:00-11:00	final keyword, Abstract class.		
22	29/9/2020	9:00-10:00	Interfaces: Defining interfaces, Implementing interfaces		
23	30/9	12:30-1:30	Accessing interface variables, Extending interfaces.		
24	1/10/2020	11:30-12:30	Packages: Packages, java.lang package		
25	6/10/2020	9:00-10:00	Access specifiers and Enum type		
26	7/10/2020	12:30-1:30	**Unit IV:** Exception: Introduction, Exception handling Techniques		
27	8/10/2020	11:30-12:30	Throw and finally Program		
28	9/10/2020	10:00-11:00	User-defined exception, Exception Encapsulation and Enrichment		
29	13/10/20	12:30-1:30	Assertions and logging concept with program		
30	15/10/20	11:30-12:30	Assertions and logging concept with program,Java Stream classes (Byte, character)		
31	16/10/20	10:00-11:00	Reading and Writing using Byte Stream classes, Reading and Writing using Character Stream		
32	19/10/20(E)	12:30-1:30	Randomly accessing files, Java BufferedReader class		
33	20/10/2020	9:00-10:00	Scanner class with programs		
34	21/10/20	12:30-1:30	Console class, Serialization and Deserialization with Example.		
35	22/10/20	11:30-12:30	**Unit V:** Applet: Introduction to Applet, Difference between Applet and Application Program, Applet Program		
36	23/10/20	10:00-11:00	Applet Life cycle and it's methods, Common Methods used in displaying the output, paint (),repaint (),		
37	24/10/2020(E)	12:00-1:00	More about applet tag, getDocumentBase() and getCodeBase () methods,		
38	03/11/2020	11:30-12:30	Applet Context Interface, Audio clip		
39	04/11/2020	12:30-1:30	Graphic Class, Color, Font, Font Metrics.		
40	05/11/2020	11:30-12:30	**Unit VI:** Introduction, Event delegation Model, java.awt.event Description		
41	06/11/2020	10:00-11:00	Sources of events, Event Listeners, Adapter classes, Inner Classes.		
42	24/11/2020	9:00-10:00	Abstract Window Toolkit: Introduction, Components and Containers, Button, Label,		
43	25/11/2020	12:30-1:30	Checkbox, Radio Buttons, List Boxes		
44	26/11/20	11:30-12:30	Choice Boxes, Textfield and Textarea		
45	27/11/20	10:00-11:00	Container Class, Layouts		
46	2/12/20	12:30-1:30	Programs based on Menu, Scrollbar		
47	3/12/20	11:30-12:30	3 University papers solved		
48	4/12/2020	10:00-11:00	Revision		
49	9/12/2020	12:30-1:30	Revision		

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Execution Plan

Name of Faculty: Prof. T. P. Adhau **Subject Code: 3KS04** **Section: B**

Subject Name: DS **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	9	Introduction to Data Structure		
2	18/8/2020	11.30	Algorithmic Notation		
3	21/8/2020	9	Complexity of Algorithm		
4	24/8/2020	9	String Processing : Storing string, character data type		
5	25/8/2020	11.30	String Processing , Word Processing		
6	28/8/2020	9	Pattern Matching : First Pattern matching		
7	31/8/2020	9	Second Pattern Matching		
8	02/9/2020	10	Second Pattern Matching		
9	04/9/2020	9	Linear arrays and their representation in memory		
10	07/9/2020	9	Traversing linear arrays, inserting Operation		
11	08/9/2020	11.30	deleting operations, Bubble sort		
12	09/9/2020	10	Searching : Linear Search, Binary Search		
13	11/9/2020	9	Multidimensional Array, General Multidimensional Array		
14	14/9/2020	9	Pointer, Pointer Array, Matrices		
15	15/9/2020	11.30	Record, Record Structure		
16	16/9/2020	10	Linked List, Representation of Linked list in memory, Traversing a linked list		
17	18/9/2020	9	Searching a linked list		
18	21/9/2020	9	Memory Allocation;Garbage Collection, Overflow, Underflow		
19	22/9/2020	11.30	Insertion at the beginning of list		
20	23/9/2020	10	Inserting after given node		
21	25/9/2020	9	inserting in sorted linked list		
22	28/9/2020	9	deleting the node following a given node		
23	29/9/2020	11.30	deleting the node with given item of information		
24	30/9/2020	10	Header Linked List, Traversing operation		
25	05/10/20	9	Two-way List		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	06/10/2020	11.30	Inserting, Deleting		
27	07/10/2020	10	Stack, Array Representation Stack,		
28	09/10/2020	9	Linked Representation Stack		
29	13/10/2020	11:30-12:30	Linked Representation Stack, PUSH,POP		
28	16/10/2020	9:00 - 10:00	Evaluation of Postfix Expression, Converting Infix to Postfix Expression		
29	19/10/2020	9:00 - 10:00	Recursion: Factorial, Ackermann function		
30	20/10/2020	11:30-12:30	Tower of Hanoi		
31	21/10/2020	10:00 - 11:00	Quick Sort		
32	23/10/2020	9:00 - 10:00	Quick Sort		
33	03/11/2020 10	11:30-12:30	Queue, Representation of queue , Insertion, Deletion		
34	04/11/2020	10:00 - 11:00	Dequeue and Priority Queue		
35	06/11/2020	9:00 - 10:00	Tree, Binary Tree, Representation of binary tree		
36	23/11/2020	09:00-10:00	Traversing Binary Tree		
37	24/11/2020	11:30-12:30	Traversal Algorithm using STACK		
38	25/11/2020	10:00 - 11:00	Binary Search Tree, Searching		
39	26/11/2020	12:30-1:30	Inserting and deleting		
40	27/11/2020	09:00-10:00	Header Node		
41	02/12/2020	10:00 - 11:00	Heap and heapsort,		
42	04/12/2020	09:00-10:00	Path length & Huffman‟s algorithm.		
43	07/12/2020	09:00-10:00	Path length & Huffman‟s algorithm.		
44	08/12/2020	11:30-12:30	Graph, memory representation of graph		
45	09/12/2020	10:00 - 11:00	BFS ,Breadth first Search		
46	11/12/2020	09:00-10:00	Depth First Search, Insertion Sort		
47	14/12/2020	9:00 - 10:00	Selection Sort,Radix Sort		
48	15/12/2020	11:00-12:30	Shortest Path Algorithm,Linked Representation of graph		
49	16/12/2020	12:30-02:00	operation on graph		

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Execution Plan

Name of Faculty: Prof. Ms. A. B. Pahurkar **Subject Code: 3KS05** **Section: B**

Subject Name: ADE **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	11:30 to 12:30	Unit 1: Basics of Semiconductor		
2	20/8/20	10 to 11	Introduction to P-N Junction diode		
3	21/8/20	12:30 to 1:30	Working of P-N junction diode		
4	24/8/20	11:30 to 12:30	V-I characteristics of P- N junction Diode		
5	27/8/20	10 to 11	Parameters of P-N junction Diode		
6	28/8/20	12:30 to 1:30	Introduction and working of transistor		
7	31/9/20	11:30 to 12:30	CB, CE, and CC configuration of Transistor		
8	03/9/20	10 to 11	I/P and Op characteristics of CB and CE		
9	04/9/20	12:30 to 1:30	Characteristics of CC configuration		
10	05/9/20	9 to 11	Numericals (2 Extra lecture)		
11	7/9/20	11:30 to 12:30	Unit 2: Introduction and working of FET		
12	8/9/20	12:30 to 1:30	Drain and Transfer characteristics of JFET		
13	10/9/20	10 to 11	Parameters of FET and Numerical		
14	11/9/20	9 to 10	Introduction and working of MOSFET		
15	14/9/20	11:30 to 12:30	Enhancement Type of MOSFET and its Characteristics		
16	16/9/20	12:30 to 1:30 pm	Introduction and Construction of CMOS		
17	18/9/20	12:30 to 1:30 pm	Designing of different logic gates using CMOS		
18	21/9/20	11:30 to 12:30	Unit 3: Binary and Decimal number systems		
19	22/9/20	12:30 to 1:30 pm	r's and r-1 compliments		
20	24/9/20	10 to 11	Numericals on 1's and 2's complement subtraction		
21	25/9/20	12:30 to 1:30 pm	Octal to Binary and binary to octal conversion		
22	28/09/20	9 to 10 am	Hexadecimal Conversion		
23	29/09/20	12:30 to 1:30 pm	Computer Codes (BCD and Gray)		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	01/10/20	10 to 11 am	Excess 3 and other computer codes		
25	05/10/20	9 to 10 am	ASCII code and EBCDIC code		
26	06/10/20	11:30 to 12:30 pm	Unit 4: Introduction to logic gates and Boolean theorem		
27	08/10/20	9 to 10	Minimization of boolean expression using boolean theorem		
28	09/10/20	12 to 1	Examples using boolean theorem		
29	12/10/20	11:30 to 12:30	Examples on boolean expression using logic gates and truth table		
30	14/10/2020	11:30 to 12:30	Representation using SOP and POS form		
31	16/10/2020	12:30 to 1:30 pm	Realization using SOP and POS form		
32	17/10/2020	1 to 2 pm	Introduction to K-Map technique		
33	19/10/2020	11:30 to 12:30	Examples on k-map technique		
34	20/10/2020	10 to 11 am	Examples on K map using truth table		
35	22/10/2020	10 to 11 am	Conversion of SOP into POS and vice- versa		
36	23/10/2020	12:30 to 1:30 pm	K-map using don't care condition		
37	3/11/2020	12:30 to 1:30	Revised K-map		
38	5/11/2020	10 to 11 am	Tabulation Method		
39	6/11/2020	12:30 to 1:30	Examples on tabulation method		
40	23/11/2020	11:30 to 12:30 pm	Examples on five variable k-map		
41	24/11/2020	12:30 to 1:30	Unit 5: Introduction to adder and subtractor		
42	26/11/2020	10 to 11 am	N bit parallel adder and BCD Adder		
43	27/11/2020	12:30 to 1:30 pm	Comparator and Parity generator		
44	3/12/2020	10 to 11	Multiplexer and demultiplexer		
45	4/12/2020	12:30 to 1:30	PLA and ROM		
46	7/12/2020	11:30 to 12:30	Unit 6: Introduction to flip-flop, S R flip flop		
47	8/12/2020	12:30 to 1:30 pm	J K Flip Flop, Master J K flip Flop, T and D type Flip Flop		
48	10/12/2020	10 to 11 am	Shift Register and bidirectional shift register, Ring counter, Twisted ring counter		
49	11/12/2020	12:30 to 1:30 pm	BCD counter, Up/Down counter, Mod counter		

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Execution Plan

Name of Faculty: Prof. Ms. S. S. Harne **Subject Code:** **Section: B**

Subject Name: EVS **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1.	29/08/20	11:00-12:00	Introduction of EVS		
2.	02/09/20	11.30-12:30	Introduction of Ecosystem		
3.	05/09/20	11:00-12:00	Types of Ecosystem, Structure of Ecosystem		
4.	09/09/20	11:30-12:30	Function of Ecosystem		
5.	16/09/20	11:30-12:30	Introduction of Food Chain		
6.	19/09/20	11:00-12:00	Types of food chain		
7.	23/09/20	11:30-12:30	Grazing food chain and detritus food chain		
8.	26/09/20	11:00-12:00	Food Web		
9.	30/09/20	11:30-12:30	Ecological Pyramid		
10.	03/10/20	11:00-12:00	Types of Pyramid and Succession		
11.	07/10/20	11:30-12:30	Primary Succestion, Sec.Succestion		
12.	10/10/20	11:00-12:00	Biodiversity ,Levels of Biodiversity		
13.	14/10/20	11:30-12:30	Classification of Biodiversity,Conservation		
14.	17/10/20	2.00-3.00	Conservation of biodiversity		
15.	21/10/20	11.30-12.30	Insitu Conservation & Exsitu Conservation		
16.	24/10/20	11:00-12:00	Values of Biodiversity		
17.	04/11/20	11.30-12.30	Hot Spot of Biodiversity		
18.	07/11/20	11.00-12.00	Threats to Biodiversity		
19.	25/11/20	11.30-12.30	Endangered and Endemic Species, India as		
20.	28/11/20	11:00-12:00	Environmental Pollution, Cassification		
21.	02/12/20	11.30-12.30	Classification of Pollutants, Water Pollution		
22.	05/12/20	11:00-12:00	Sources of Water Pollution		
23.	12/12/20	11:00-12:00	Classification and Effects of water Pollution		
24.	16/12/20	11.30-12.30	Eutroficatio,Bioaccumlation,Magnification,Intr		

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Execution Plan

Name of Faculty: Prof. Ms. S. R. Sawarkar **Subject Code: 3KS01** **Section: C**

Subject Name: M-III **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	11.30 to12.30	UNIT I Defination of L.D.E, DIFFERENT METHODS OF FINDING COMPLIMENTRY FUNCTION		
2	18/08/20	10to11	CASE 1 , 2 OF FINDING PARTICULAR INTEGRAL		
3	20/08/20	9to10	CASE 3 OF P.I		
4	24/08/20	11.30 to12.30	CASE 4 OF P.I		
5	25/08/20	10to11	CASE 5 OF P.I		
6	27/08/20	9 to 10	method of variation of parameter		
7	31/08/20	11.30 to 12.30	Cauchy's Linear Differential Equation		
8	02/09/20	12.30 to 1.30	Legender's Linear Differential Equation		
9	03/09/20	9 to 10	UNIT 2 LAPLCE TRANSFORM-- definition and properties		
10	07/09/20	11.30 to 12.30	examples of LT		
11	08/09/20	10 to 11	inverse LT		
12	09/09/20	12.30 to 1.30	INVERSE LT EXMPLES		
13	10/09/20	9 TO 10	INVERSE LT EXMPLES		
14	14/09/20	11.30 to 12.30	LT of periodic function		
15	15/09/20	10 to 11	UNIT III Solution of L.D.E by L.T		
16	16/09/20	12.30 to 1.30	Solution of simultaneous D.E. by L.T		
17	21/09/20	11. TO 12.30	UNIT IV Partial Differential Equation Type I		
18	22/09/20	10 TO 11	Type II, III		
19	23/09/20	12.30 TO 1.30	Type IV		
20	24/09/20	9 TO 10	Type V, Reducible to previous types		
21	28/09/20	11.30 TO 12.30	FITTING OF STRIGHT LINE		
22	29/09/20	10TO 11	FITTING OF PARABOLA		
23	30/09/20	12.30 to 1.30	coefficient of corelation		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	01/10/20	9 to 10	line of regression		
25	05/10/20	11.30 to 12.30	UNIT V COMPLEX ANALYSIS		
26	06/10/20	10 to 11	EXAMPLES		
27	07/10/20/	12.30 to 1.30	EXAMPLES		
28	08/10/20	9 to 10	EXAMPLES		
29	12/10/20	11.30 TO 12.30	CONFORMAL MAPPING		
30	14/10/20	12.30 TO 1.30	EXAMPLES		
31	19/10/20	11.30 to 12.30	TAYLORS SERIES		
32	20/10/20	10 to 11	LAURENTS SERIES		
33	21/10/20	12.30 to 1.30	UNIT VI VECTOR ANALYSIS		
34	22/10/20	9 to 10	GRADIENT OF SCALAR FUNCTION		
35	03/11/20	10 to 11	DIRECTIONAL DERIVATIVE		
36	04/11/20	12.30 to 1.30	DIVERGENCE AND CURL OF VECTOR		
37	05/11/20	9 to 10	LINE , SURFACE AND VOLUME INTEGRAL		
38	23/11/20	11.30 to 12.30	LINE , SURFACE AND VOLUME INTEGRAL		
39	24/11/20	10 to 11	IRROTATIONAL , SOLENOIDAL VECTOR FIELD		
40	25/11/20	12.30 to 1.30	UNIT III FOURIER TRANSFORM		
41	26/11/20	9 to 10	EXAMPLES		
42	03/12/20	9 to 10	EXAMPLES		
43	06/12/20	11.30 to 12.30	EXAMPLES		
44					
45					

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Execution Plan

Name of Faculty: Prof. Ms. R. S. Badre **Subject Code: 3KS02** **Section: C**

Subject Name: DSGT **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17-8-20	12:30-1:30	Unit I : Introduction to logic and Proofs, Propositions, Propositional variables, Truth Tables, Compound and Simple Propositions .		
2	18-8-20	9:00-10:00	Notations , Logical Operators : Negation , Conjunction , Disjunction ,Conditional , Bi-conditional ,exclusive or, Truth Tables of logical operators.		
3	20-8-20	10:00-11:00	Conditional statements, Truth Table of Compound Propositions, Examples,Precedence of Logical operators.		
4	21-8-20	12:30-1:30	Logic and Bit operations , Examples , Applications of Propositional logic, translating English Sentences.		
5	25-8-20	9:00-10:00	Logical Equivalences, De Morgan's Laws		
6	27-8-20	10:00-11:00	Problems based on Logical Equivalences, Introduction to Predicates and examples.		
7	28-8-20	12:30-1:30	Precondition and Postcondition Predicates and example , Quantifiers ,Introduction to Universal Quantifiers and Problems based on Universal Quantifiers		
8	29-8-20	12:00-1:00	Quantifiers: Restricted Domains, Precedence, Binding Variables.		
9	03-9-20	10:00-11:00	Logical Equivalences involving quantifiers, Rules of Inference:Valid Argument in Propositional logic.		
10	04-9-20	12:30-1:30	Rules of Inference for Propositional Logic, Use to Build Arguments.		
11	05-9-20	12:00-1:00	Rules of Inference for Quantified Statements,Use to Build Arguments, Resolution, Combination for Propositions and Quantified Statements		
12	08-9-20	9:00-10:00	Combination for Propositions and Quantified Statements Proofs Terminology, Methods, Direct Proofs, Proof by Contraposition and Contradiction		
13	10-9-20	10:00-11:00	Unit II : Introduction, Venn Diagrams, Subsets, Size of a Set, Power Sets.		
14	11-9-20	12:30-1:30	Size of a Set, Power Sets, Cartesian Products, Set Notation with Quantifiers, Truth Sets and Quantifiers.		
15	12-9-20	12:00-1:00	Set Operation Intersection,Union ,Difference, Compliment ,disjoint and Problems based on Set operation:		
16	15-9-20	9:00-10:00	Set operation, Set identities methods.		
17	18-9-20	12:30-1:30	Generalized unions and intersections		
18	22-9-20	9:00-10:00	Functions : Definition , examples		
19	24-9-20	10:00-11:00	Functions: definition of sum of product and example, definition of function on subset and examples, definition of injective, surjective and bijective and Problem based on types of function.		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
20	25-9-20	12:30-1:30	Functions: Inverse Functions, Compositions and Graphs of Functions and problems		
21	26-9-20	12:00-1:00	Some Important Functions,Ceiling and floor function, Partial Functions; Sequences: definition Arithmetic and Geometric progression.		
22	29-9-20	9:00-10:00	Recurrence Relation		
23	1-10-20	10:00-11:00	Special Integer Sequences, Summations; Countable Sets, An Uncountable Set;		
24	3-10-20	12:00-1:00	Functions as Relations, Relations on a Set, Properties of Relations, Combining Relations;		
25	6-10-20	9:00-10:00	Composite relation, n-ary Relations, Operations on n-ary Relations; Representing Relations Using Matrices		
26	8-10-20	10:00-11:00	Representing Relations Using Matrices and Problem based; Closures,		
27	9-10-20	12:30-1:30	Closures, Transitive Closures		
28	10-10-20	12:00-1:00	Unit IV : Algebraic Systems: Examples and General Properties;		
29	16-10-20	12:30-1:30	Semigroups and Monoids and Examples		
30	17-10-20	12:00-1:00	Homomorphism of Semigroups and Monoids, Subsemigroups and Submonoids; Groups: Definitions, Subgroups and Homomorphisms,		
31	20-10-20	9:00-10:00	Cosets and Lagrange‟s Theorem, Problems based		
32	22-10-20	10:00-11:00	Normal Subgroups, algebraic Systems with Two Binary Operations.		
33	23-10-20	12:30-1:30	Ring, Substring,Ring Homomorphism,		
34	24-10-20	12:00-1:00	Unit III : Division, The Division Algorithm, Modular Arithmetic		
35	03-11-20	9:00-10:00	Arithmetic Modulo m and Examples.		
36	05-11-20	10:00-11:00	Primes, Trial Division, Conjectures and Open Problems About Primes		
37	06-11-20	12:30-1:30	GCD and LCM		
38	07-11-20	12:00-1:00	The Euclidean Algorithm, gcds as Linear Combinations;		
39	24-11-20	9:00-10:00	Linear Congruences, The Chinese Remainder Theorem		
40	26-11-20	10:00-11:00	Fermat‟s Little Theorem, Pseudoprimes, Primitive Roots and Discrete Logarithms		
41	27-11-20	11:30-12:30	Unit V: Counting: Basic Counting Principles, Product rule, sum rule.		
42	27-11-20	12:30-1:30	Complex Counting Problems,		
43	3-12-20	10:00-11:00	Subtraction rule , Division rule , Tree diagram.		
44	4-12-20	12:30-1:30	The Pigeonhole Principle, The Generalized Pigeonhole Principle, Applications;		
45	5-12-20	12:00-1:00	Permutations, Combinations,		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
46	8-12-20	9:00-10:00	Generating Permutations		
47	10-12-20	10:00-11:00	Generating Permutations, Generating Combinations.		
48	12-12-20	12:00-1:00	Unit VI: Graph Models;		
49	12-12-20	1:00-2:00	Basic Terminology Special Simple Graphs,		
50	15-12-20	11:30-12:30	Bipartite Graphs, Matchings, Applications of Special Types of Graphs, New Graphs from Old; Graph Representation, Adjacency and Incidence Matrices,		
51	16-12-20	1:00-2:00	Isomorphism of Graphs, Determining Isomorphism; Paths, Connectedness in Undirected Graphs and Directed Graphs,		
52	17-12-20	10:00-11:00	Paths and Isomorphism, Counting Paths Between Vertices; Euler Paths and Circuits		
53	18-12-20	12:00-1:00	Hamilton Paths and Circuits, Applications of Hamilton Circuits; Planar Graphs: Euler‟s Formula, Kuratowski‟s Theorem;		
54	19-12-20	1:00-2:00	Graph Coloring: Introduction, Applications of Graph Colorings.		

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Execution Plan

Name of Faculty: Prof. Ms. P. P. Deshmukh **Subject Code: 3KS03** **Section: C**

Subject Name: OOP **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	24/08/20	12.30-1.30 pm	**Unit I:** Introduction to Object Oriented Programming, basic components of OOP. Principles of Object-Oriented Languages Procedural Language Vs OOP.		
2	28/08/20	09.00-10.00 am	Java Essentials(JVM,JRE,JDK), BAsic Structure of JAVA Program. Java Features - Platform Independent,Object oriented, Compiled and interpreted, Robust.		
3	29/08/20	11.00-12.00 am	Java Features - Security (Strictly typed language, Lack of pointers, Garbage collection, Strict compile time checking, Sandbox security, Multithreadedand some other features		
4	02/09/20	11.30-12.30 am	Java Programming Constructs like Variables, Primitive data types, Identifier, Literals,		
5	05/09/20	09.00-10.00 am	Arithmetic operator, Assignment operator, Relational Operator, Boolean operator.		
6	07/09/20	12.30-1.30 pm	Bitwise Operator, Expressions, Precedence Rules and Associativity, Primitive Type Conversion and Casting.		
7	09/09/20	11.30-12.30 am	Flow of Control:Conditional Statements, Loops with JAVA Program demonstration.		
8	11/09/20	09.00-10.00 am	Flow of Control: branching statement with JAVA Program demonstration.		
9	12/09/20	11.00-12.00 am	**Unit II:** Basic concepts of Classes and Objects with creating objects in programming examples.		
10	14/09/20	12.30-1.30 pm	Concept of Methods, writing method in java programming examples.		
11	16/09/20	11.30-12.30 am	Method Overloading with programming examples.		
12	18/09/20	09.00-10.00 am	Constructors & it's types with program		
13	21/09/20	12.30-1.30 pm	Difference between constructor & method, Cleaning up Unused Objects, Class Variable and Methods		
14	23/09/20	11.30-12.30 am	this keyword & its program, Static variable & static methods with programming		
15	25/09/20	09.00-10.00 am	Arrays(1-D,2-D), Command Line Arguments.		
16	26/09/20	11.00-12.00 am	**Unit III:** Inheritance: Inheritance vs. Aggregation, Method Overriding		
17	28/09/20	12.30-1.30 pm	super keyword in inheritance, super keyword with method overriding,Constructors		
18	30/09/20	11.30-12.30 am	final keyword, Abstract class.		
19	03/10/20	11.00-12.00 am	Interfaces: Defining interfaces, Implementing interfaces		
20	05/10/20	12.30-1.30 pm	Accessing interface variables, Extending interfaces.		
21	07/10/20	11.30-12.30 am	Packages: Packages, java.lang package		
22	09/10/20	09.00-10.00 am	Access specifiers and Enum type		
23	10/10/20	11.00-12.00 am	**Unit IV:** Exception: Introduction, Exception handling Techniques		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	12/10/20	12.30-1.30 pm	Throw and finally Program		
25	14/10/20	11.30-12.30 am	User-defined exception, Exception Encapsulation and Enrichment		
26	15/10/20	11.30-12.30	Assertions and logging concept with program		
27	16/10/20	09.00-10.00 am	Assertions and logging concept with program,Java Stream classes (Byte, character)		
28	16/10/20	1.30-2.30 pm	Reading and Writing using Byte Stream classes, Reading and Writing using Character Stream		
29	17/10/20	11.00-12.00 am	Randomly accessing files, Java BufferedReader class		
30	19/10/20	12.30-1.30 pm	Scanner class with programs		
31	21/10/20	11.30-12.30 am	Console class, Serialization and Deserialization with Example.		
32	23/10/20	09.00-10.00 am	**Unit V:** Applet: Introduction to Applet, Difference between Applet and Application Program, first Applet Program.		
33	24/10/20	11.00-12.00 am	Applet Life cycle and it's methods, Common Methods used in displaying the output, paint (), update () and repaint (),		
34	04/11/20	11.30-12.30 am	More about applet tag, getDocumentBase() and getCodeBase () methods,		
35	06/11/20	09.00-10.00 am	Applet Context Interface, Audio clip		
36	07/11/20	11.00-12.00 am	Graphic Class, Color, Font, Font Metrics.		
37	23/11/20	12.30-1.30 pm	**Unit VI:** Introduction, Event delegation Model, java.awt.event Description		
38	25/11/20	11.30-12.30 am	Sources of events, Event Listeners		
39	27/11/20	09.00-10.00 am	Adapter classes, Inner Classes.		
40	28/11/20	11.00-12.00 am	Abstract Window Toolkit: Introduction, Components and Containers, Button, Label,		
41	02/12/20	11.30-12.30 am	Checkbox, Radio Buttons, List Boxes		
42	04/12/20	09.00-10.00 am	Choice Boxes, Textfield and Textarea,		
43	05/12/20	11.00-12.00 am	Container Class,Layouts		
44	07/12/20	12.30-1.30 pm	Menu Bar, Scrollbar		
45	09/12/20	11.30-12.30 am	3 University papers solved		

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Execution Plan

Name of Faculty: Prof. Ms. K. R. Hole **Subject Code: 3KS04** **Section: C**

Subject Name: DS **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	10-11 am	Introduction to Data Structure		
2	20/8/2020	11:30-12:30	Algorithmic Notation		
3	21/8/2020	10-11 am	Example of algorithm		
4	24/8/2020	03-04 pm	Control structures		
5	27/8/2020	11:30-12:30	Complexity of Algorithm		
6	28/8/2020	10-11 am	Sub-algorithm,Storing string, character data type		
7	31/8/2020	10-11 am	String operation (Substring, Index)		
8	2/9/2020	9-10 am	Length, Concatenation		
9	3/9/2020	11:30-12:30	Word processing Operation (Insertion)		
10	4/9/2020	10-11 am	Deletion		
11	7/9/2020	10-11 am	Replacement		
12	9/9/2020	9-10 am	First Pattern Matching algorithm concept		
13	10/9/2020	11:30-12:30	First Pattern Matching algorithm Examples		
14	11/9/2020	10-11 am	First Pattern Matching algorithm		
15	14/9/2020	10-11 am	Second Pattern Matching algorithm Concept		
16	16/9/2020	9-10 am	Second Pattern Matching algorithm Examples		
17	18/9/2020	10-11 am	Second Pattern Matching algorithm		
18	21/9/2020	10-11 am	Linear array, LA representation		
19	23/9/2020	9-10 am	Traversing LA algorithm-for and while loop		
20	24/9/2020	11:30-12:30	Insertion in LA examples and algorithm		
21	25/9/2020	10-11 am	Deletion in LA examples and algorithm		
22	28/9/2020	10-11 am	Bubble sort and Linear search algorithm with example		
23	30/9/2020	9-10 am	Multidimensional array types and representation		
24	30/9/2020	10-11 am	Row-major order and column-major order examples		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	01/10/2020	11:30-12:30	Record structure and sparse matrix with types		
26	05/10/2020	10-11 am	Linked list and representation, Traversing LL algorithm		
27	07/10/2020	9-10 am	Memory allocation, Garbage collection, AVAIL list, Overflow & underflow concept.		
28	08/10/2020	11:30-12:30	Insertion at beginning algorithm and example		
29	09/10/2020	10-11 am	Insertion between two nodes algorithm and example		
30	19/10/2020	10-11 am	Inserting into sorted linked list algorithm with example		
31	21/10/2020	9-10 am	Deletion from LL and example		
32	22/10/2020	11:30-12:30	Deleting node with given item of information algorithm and example		
33	23/10/2020	10-11 am	Header LL, Circular header list and types, Circularly LL, Doubly LL.		
34	04/11/2020	9-10 am	Representation of polynomial in LL with examples		
35	05/11/2020	11:30-12:30	Stack concept,basic operations and array representation of stack		
36	06/11/2020	10-11 am	Linked representation of stack- push & pop algorithm		
37	23/11/2020	10-11 am	Arithmetic expression-polish notation		
38	25/11/2020	9-10 am	Evaluation of postfix expression algorithm		
39	26/11/2020	11:30-12:30	Evaluation of postfix expression- examples		
40	27/11/2020	10-11 am	Infix to postfix expression examples		
41	2/12/2020	9-10 am	Infix to postfix expression algorithm		
42	3/11/2020	11:30-12:30	Recursion, Factorial function, Ackermann function		
43	4/11/2020	10-11 am	Queue, array representation- QINSERT, QDELETE		
44	5/11/2020	10-11 am	Linked representation, Dqueue, Circular Queue		
45	7/11/2020	10-11 am	Binary Tree, 2-tree		
46	9/11/2020	9-10 am	Linked Representation, traversing binary tree		
47	10/11/2020	11:30-12:30	Binary Search Tree, Application- Algo A, Algo B		
48	14/11/2020	11am-12pm	Threads- Inorder threading, Huffman's Algorithm with example		
49	16/11/2020	11am-12pm	Insertion Sort and Selection Sort		
50	17/11/2020	12pm-1pm	Quick Sort Algorithm And example		
51	18/11/2020	1pm-2pm	Radix sort algorithm with example		
52	19/11/2020	1pm-2pm	Warshall's Algorithm with example		

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Execution Plan

Name of Faculty: Prof. G. B. Saboo **Subject Code: 3KS05** **Section: C**

Subject Name: ADE **Semester: III** **Year: Second Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	9.00 to 10:00	**UNIT 1:** Classification of Materials, Structure, Atom, Ionization		
2	18/8/20	11:30 to 12:30	Intrinsic Semiconductor, Extrinsic Semiconductor, N Type and P Type		
3	20/8/20	12:30 to 1:30	Drift Current, Diffusion Current, Unbiased PN Junction Diode		
4	21/8/20	11:30 to 12:30	Biasing of PN Junction Diode, Forward Biasing, Forward Characteristics.		
5	24/8/20	9:00 to 10:00	Reverse Biasing, Reverse Characteristics, Resistance of Diode, Avalanche Breakdown.		
6	27/8/20	12:30 to 1:30	Bipolar Junction Transistor, Unbiased Transistor		
7	28/8/20	11:30 to 12:30	Operation of PNP and NPN Transistors, Current component in Transistor		
8	31/8/20	9:00 to 10:00	Current Component in Transistor, Transistor as an amplifier		
9	2/9/20	10.00 to 11:00	Transistor Configuration, Common base Configuration		
10	3/9/20	12:30 to 1:30	Common Emitter Configuration, Common Collector Configuration		
11	4/9/20	11:30 to 12:30	Relation between ß, ∝and Ɣ, Characteristics of CB configuration		
12	7/9/20	9:00 to 10:00	Characteristics of CE configuration, **UNIT 2:** Introduction to FET		
13	9/9/20	10:00 to 11:00	Unbaised FET, Operation of nchannel JFET		
14	10/9/20	12:30 to 1:30	JFET Characteristics		
15	11/9/20	11:30 to 12:30	Transfer Characteristics, JFET Parameters		
16	14/9/20	9:00 to 10:00	n channel and p channel Depletion type MOSFET		
17	16/9/20	10:00 to 11:00	n-channel and p-channel Enhancement type MOSFET, CMOS		
18	18/9/20	11:30 to 12:30	CMOS Inverter, CMOS NAND and NOR Gate **UNIT 3:** Number System Introduction		
19	21/9/20	9:00 to 10:00	Binary Number System, Binary to Decimal and Decimal to Binary conversion		
20	21/9/20	10:00 to 11:00	1's and 2's Complement Representation, Signed Magnitude Representation, Binary Arithmetic.		
21	23/9/20	10:00 to 11:00	Octal Number System, Octal to Decimal, Decimal to Octal Conversion, Octal to Binary and Binary to Octal Conversion		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
22	24/9/20	12:30 to 1:30	Hexadecimal Number System, Hexadecimal to Decimal, Decimal to Hexadecimal Conversion, Hexadecimal to Binary Conversion		
23	25/9/20	11:30 to 12:30	Binary to Hexadecimal Conversion, Hexadecimal to Octal, Octal to Hexadecimal Conversion, Complements		
24	28/9/20	9:00 to 10:00	Octal Arithmetic, Hexadecimal Arithmetic.		
25	1/10/20	12:30 to 1:30	Decimal Arithmetic, BCD Arithmetic		
26	5/10/20	9:00 to 10:00	Codes :Straight Binary Code, BCD Codes, Excess-3 Code, Gray Code		
27	7/10/20	10:00 to 11:00	Octal Code, Hexadecimal Code, Alphanumeric Codes		
28	8/10/20	12:30 to 1:30	**Unit 4:** Logic Gates, Boolean Algebraic Theorems		
29	9/10/20	11:30 to 12:30	DeMorgan's Theorem, Minimizing given function using Boolean Algebraic Theorem		
30	15/10/20	12:30 to 1:30	Minimizing given function using Boolean Algebraic Theorem		
31	16/10/20	11:30 to 12:30	Logic Expression representation, SOP and POS Form, Minterm and Maxterm Representation.		
32	19/10/20	9:00 to 10:00	Example on SOP and POS Form, Two Level Realization of SOP and POS Form		
33	21/10/20	10:00 to 11:00	Introduction to K-Map Technique		
34	22/10/20	12:30 to 1:30	Examples on K -map technique		
35	23/10/20	11:30 to 12:30	Example on 8 cell K-Map		
36	4/11/20	10:00 to 11:00	Example on 16 cell K- Map		
37	5/11/20	12:30 to 1:30	Minimization of SOP Form, Minimization of POS Form		
38	6/11/20	11:30 to 12:30	Minimization of POS Form using K-Map		
39	23/11/20	9:00 to 10:00	Tabular Method		
40	26/11/20	12:30 to 1:30	Tabular Method, Don't Care Condition		
41	28/11/20	12:00 to 1:00	Tabular Method		
42	2/12/20	10:00 to 11:00	Unit 5: Half Adder, Full Adder, Half Subtractor, Full Subtractor, Multiplexer		
43	3/12/20	12:30 to 1:30	Multiplexer examples.		
44	4/12/20	11:30 to 12:30	Demultiplexer, Encoder,Decoder		
45	7/12/20	9:00 to 10:00	Decoder Example, n-bit adder		
46	9/12/20	10:00 to 11:00	BCD Adder using 4 bit Adder		
47	10/12/20	12:30 to 1:30	Nine's Complement Circuit, BCD Subtractor		
48	14/12/20	9:00 to 10:00	Digital Comparator		
49	15/12/20	12:30 to 1:30	Parity Checker, Unit 6: Flip Flop, SR Flip Flop		
50	16/12/20	12:00 to 1:00	Clocked SR Flip Flop, J K Flip Flop		
51	17/12/20	11:00 to 12:00	Race Around Condition, Master Slave JK Flip Flop, Edge Triggering		
52	18/12/20	11:00 to 12:00	Excitation Table, Register, Shift Register		
53	21/12/20	12:00 to 1:00	Ring Counter, Twisted Ring Counter, Synchronous and Asynchronous Counter		

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Execution Plan

Name of Faculty: Prof. Ms. P. V. Harne **Subject Code:** **Section: C**

Subject Name: EVS **Semester: III** **Year: Second Year**

Sr.No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	21/8/2020	9:00-10:00	Introduction About Environment , Definition, etc		
2	28/8/2020	9:00-10:00	**Unit-1 Ecosystem** Ecosystem Definition and types of ecosystem		
3	4/09/2020	9:00-10:00	Types of Aquatic Ecosystem ,Component Of ecosystem		
4	11/09/2020	9:00-10:00	Function of ecosystem-Productivity , energy flow , Double channel energy model		
3	15/09/2020	11:30-1:30	Def Food chain , Grazing and detritus food chain ,food web,Ecological pyramid- pyramid of biomass,		
4	22/09/2020	11:30-1:30	Ecological succession and Process-nudation , aggregation,migration, Hydrosere or Hydrarch		
5	29/09/2020	11:30-1:30	Nutrient Cycle - Nitrogen, phosphorus, Sulphur cycle , carbon cycle		
6	06/10/2020	11:30-1:30	**Unit-2 Biodiversity-** Introduction, Definition and levels of biodiversity. Biogeographically		
7	13/10/2020	11:30-1:30	Defⁿ and List of endanger , rare vulnerable , extinct spp., Endemic sp., threaten sp., important		
9	20/10/2020	11:30-1:30	Conservation Strategy -In site conservation-sanctuaries, national park , biosphere reserve		
10	27/10/2020	11:30-1:30	Exsitu conservation-seed bank, gene bank, zoo, botanical park, aquarium, arboreta		
12	03/11/2020	11:30-1:30	**Unit-3 Environmental pollution-** Introduction, Definition, Pollutant and types of pollutant Air pollution - sources , types of pollutant , atmosphere - troposhpere strastosphere,		
13	24/11/2020	11:30-1:30	Effects of air pollution on Plants , Materials , animals and on human being . control measures of air pollution.s Water pollution - types of pollutant , point source and non point source, sources of water pollution		
14	8/12/2020	11:30-1:30	Surface water pollution and ground water pollution, Domestic waste , industrial effulent,agricultural runoff Fluride poisoning , arsenic poisoning, Itai-Itai disease , blue baby syndrome, minamata disease .		

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Execution Plan

Name of Faculty: Dr. Ms. S. W. Ahmed **Subject Code: 5KS01** **Section: A**

Subject Name: DC **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
01	17/8/20	10 to 11	Introduction to DC ,characteristics of DC,Components of DC		
02	18/8/20	11 to 12	Network Criteria,Protocols and Standards,Line Configurations,Transmission Modes		
03	20/8/20	12.30 to 1.30	Topologies(Mesh,Star,Bus,Tree,Ring)		
04	21/8/20	2.00 to 3.00	Topology(Bus, Ring, Hybrid), Transmission Mode		
05	24/8/20	10 to 11	Network Categories, Signal:Analog and Digital		
06	25/8/20	11 to 12	Characteristics of analog signal, Composite Signal		
07	27/8/20	12.30 to 1.30	Frequency spectrum and Bandwidth, Digital signal, Decomposition of digital signal		
08	28/8/20	2.00.to 3.00	Unit 2: Encoding, Modulation, Conversion methods		
09	31/8/20	10 to 11	Unipolar, NRZ-L, NRZ-I digital to digital encoding		
10			RZ encoding, Manchester and differential Manchester Encoding		

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Execution Plan

Name of Faculty: Prof. S. P. Ingale **Subject Code: 5KS02** **Section: A**

Subject Name: FSDP **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	11 to 12	Introduction: File Structures and Data Processing		
2	18/8/20	10 to 11	File structure design ,File processing operations : open, close,		
3	20/8/20	1:30 to 2:30	File processing operations : open, close, read, write, seek Unix directory structure		
4	24/8/20	11 to 12	Unix directory structure,Secondary storage devices: disks,		
5	25/8/20	10 to 11	Secondary storage devices: disks,		
6	27/8/20	1:30 to 2:30	Organizing Track by Sector, , Organizing Block by Tracks		
7	29/8/20	1:30 to 2:30	Secondary storage devices: tape		
8	02/09/20	11 to 12Ad	Secondary storage devices: CD - ROM		
9	03/09/20	1:30 to 2:30	Secondary storage devices revision , Journey of Byte		
10	05/09/20	1:40 to 2:30	Buffer management		
11	07/09/20	11 to 12	contd. Buffer management		
12	08/09/20	10 to 11	I/O in Unix		
13	10/09/20	11 to 12ad	**Unit 2** File Structure Concept		
14	12/09/20	9:30 to 10:30 ad	Field and Record Structures		
15	15/09/20	10 to 11	Record access		
16	16/09/20	10 to 11a	Record access, Record structures		
17	18/09/20	12.30to 1:30 ad	file access & file organization		
18	19/09/20	1:30 to 2:30	Abstract data models for file access		
19	21/09/20	11 to 12	Metadata. Extensibility		
20	22/09/20	10 to 11	portability & Standardization revision		
21	23/09/20	12:30to01:30	**Unit 3:** Data Compression		
22	24/09/20	1:30 to 2:30	Data compression and reclaiming spaces in files		
23	26/09/20	1:30 to 2:30	problems on Huffman encoding		
24	28/09/20	11 to 12	Storage compaction and record deletion		
25	29/09/20	10 to 11	introduction to internal and binary searching. keysorting		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	30/09/20	12:30 to 1:30	Indexing concepts. Object I/O. Multiple keys indexing		
27	01/10/20	10 to 11 A	Inverted lists, Selective indexes, Binding		
28	03/10/20	9:30 to 10: 30	Problems on First Fit, Best Fit , Worst Fit		
29	05/10/20	11 to 12	**Unit 4** :Introduction to Cosequential processing, Cosequential processing operation		
30	06/10/20	1:30 to 2:30 A	Matching and Merging , Functions		
31	07/10/20	10t0 11	Cosequential processing : Object-Oriented model, its application		
32	7/10/20	11to 12 A	Internal sorting: a second look		
33	08/10/20	11 to 12	File Merging : Sorting of large files on disks, Heap		
34	10/10/20	9:30to 10:30	Problems & Heap Building Algorithm		
35	13/10/20	11 to 12a	File Merging : Sorting of large files on disks		
36	14/10/20	12:30 to 1:30	File Merging : Sorting of large files on disks		
37	15/10/20	1:30 to 2:30	Sorting files on tapes		
38	17/10/20	1:30 to 2:30	Problems Selection Sort		
39	19/10/20	11 to 12	Unit V: Introduction to Multilevel Indexing		
40	20/10/20	10 to 11	Indexing using Binary Search tree,OOP based B tree		
41	21/10/20	12:30 to 1:30	B tree methods Search , insert, and othrs		
42	22/10/20	1:30 to 2:30	Deletion merging & redistribution		
43	24/10/20	1:30 to 2:30	Problems		
44	3/11/20	10 to 11	Revision		
45	4/11/20	10to 11	Virtual B - tree		
46	5/11/20	1:30-2:30	VL records & keys		
47	7/11/20	9:30t-10:30	Indexed Sequential File access and Prefix B+ tree		
48	23/11/20	11 to 12	Revision , Hashing introduction		
49	25/11/20	12:30 to 1:30	Unit 6: Introduction : Hashing,A simple hashing algorithm,		
50	29/11/20	1:30-2:30	Hashing Function and Record Distribution		
51	2/12/20	12:30 to 1:30	Collision resolution ,		
52	03/12/20	1:30	Buckets		
53	05/12/20	9:30 ad	Making Deletion, Pattern of record		
54	07/12/20	11:00	Collision resolution techniques		
55	09/15/20	12:30	Revision		
56	10/12/20	1:30-2:30	External hashing . implementation, Deletion		
57	12/12/20	9:30 ad	performance, Alternative approach		
58	14/12/20	10	Alternative approach Revision		

Prof. Ram Meghe Institute of Technology & Research Badnera
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Execution Plan

Name of Faculty: Prof. A. R. Deshmukh **Subject Code: 5KS03** **Section: A**

Subject Name: SS **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	12:30 to 1:30	Introduction to Compiler		
2	18/08/20	12:30 to 1:30	Phases of compiler, Lexical Analysis: The role of lexical analyzer		
3	18/08/20	1:30 to 2:30	Specification of Token,Recognition of Token,Problems on Phases of Compiler		
4	20/08/20	11:00 to 12:00	Problems on Phases of Compiler		
5	25/08/20	12:30 to 1:30	Context Free Grammar(CFG),Derivation and derivation tree,Ambiguity in CFG		
6	31/08/20	11:00 to 12:00	Syntax analysis: The role of the parser		
7	31/08/20	12:30 to 1:30	Top Down Parsing: Recursive Descent Parsing		
8	02/09/20	10:00 to 11:00	Left Factoring, Left Recursion		
9	04/09/20	12:30 to 1:30	First and Follow		
10	07/09/20	12:30 to 1:30	First and Follow		
11	08/09/20	1:30 to 2:30	Construction of Predictive Parsing Table		
12	09/09/20	10:00 to 11:00	LL(1) Grammar		
13	09/09/20	11:00 to 12:00	Verification for String		
14	10/09/20	10:00 to 11:00	Problems on LL(1) grammar		
15	14/09/20	12:30 to 1:30	Introduction to Bottom up parsing		
16	14/09/20	1:30 to 2:30	Finding LR(0) items		
17	15/09/20	1:30 to 2:30	Problems based on LR(0)		
18	16/09/20	10:00 to 11:00	LR Parsing algorithm		
19	21/09/20	12:30 to 1:30	Construction of SLR parsing table		
20	23/09/20	10:00 to 11:00	Construction of SLR parsing table		
21	24/09/20	11:00 to 12:00	Canonical LR parsing table		
22	28/09/20	12:30 to 1:30	Canonical LR parsing table		
23	29/09/20	1:30 to 2:30	Canonical LALR parsing table		
24	30/09/20	10:00 to 11:00	Stack Implementation of Shift Reduce Parsing		
25	01/10/20	11:00 to 12:00	State Minimization of DFA		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	05/10/20	12:30 to 1:30	Introduction to Syntax Directed Translation		
27	06/10/20	10:00 to 11:00	Syntax Directed Translation:Syntax directed definitions		
28	08/10/20	11:00 to 12:00	SDD Attributes		
29	12/10/20	12:30 to 1:30	Problems based on Syntax directed definitions		
30	13/10/20	1:30 to 2:30	Dependency Graph		
31	15/10/20	11:00 to 12:00	construction of syntax trees		
32	19/10/20	12:30 to 01:30	Directed acyclic graphs for the expression		
33	20/10/20	01:30 to 02:30	S-attributed definitions,top down translation		
34	21/10/20	10:00 to 11:00	Intermediate language		
35	22/10/20	11:00 to 12:00	Translation of declaration and assignment statements		
36	22/10/20	01:30 to 2:30	Design issues of code generator		
37	03/11/20	01:30 to 2:30	Target machine		
38	04/11/20	10:00 to 11:00	Runtime storage management		
39	04/11/20	12:30 to 1:30	Basic block and flow graph		
40	05/11/20	11:00 to 12:00	Introduction to runtime environment		
41	23/11/20	12:30 to 1:30	Source language issues		
42	24/11/20	12:30 to 1:30	Activation tree, control stack		
43	25/11/20	10:00 to 11:00	storage organization		
44	26/11/20	10:00 to 11:00	Activation Record		
45	02/12/20	10:00 to 11:00	Storage allocation strategies,dangling reference		
46	03/12/20	11:00 to 12:00	Symbol table :entries,storage allocation		
47	07/12/20	11:00 to 12:00	Hash table ,scope information		
48	09/12/20	10:00 to 11:00	Subdivision of runtime memory		

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Execution Plan

Name of Faculty: Prof. Ms. N. A. Deshmukh Subject Code: 5KS04 Section: A

Subject Name: STLD Semester: V Year: Third Year

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	1:30PM	**UNIT1&2**:Basics of STLD,VHDL,Objectives,Building Blocks.		
2	20/8/2020	10:00 AM	Modelling Types,Program Example.		
3	21/8/2020	12:30PM	Examples of data flow modelling,VHDL elements:Data Types.Assignment 1.		
4	27/8/2020	10:00AM	VHDL program by using dataflow,behavioural & structural modelling.		
5	27/8/2020	11:00AM	**Unit 3:**Representation and simplification of K-map.		
6	28/8/2020	12:30PM	Problems on K-map.		
7	31/8/2020	1:30PM	PI,EPI,RPI PROBLEMS.		
8	02/9/2020	12:30PM	FPI,FEPI,FRPI Problems.		
9	03/9/2020	10:00AM	PI,EPI,RPI WITH don't care condition.		
10	03/9/2020	11:00AM	Quine McCluskey Method with problem.		
11	07/9/2020	1:30PM	QuineMcCluskey(minterms+don't care)problems.		
12	08/9/2020	12:30PM	QuineMcCluskey(maxterms+don't care)problems.		
13	09/9/2020	12:30PM	Significance of Demorgan's Law with problems.		
14	10/9/2020	12:30PM	Minimization & implementation of function and Real expression using universal gates.		
15	11/9/2020	12:30PM	Implementation of logic functions using AND/OR Inverter and alternative graphic symbols.		
16	14/9/2020	01:30PM	Degenerated and Nondegenerated Form.		
17	15/9/2020	12:30PM	Numericals on Degenerated and NonDegenerated Form.		
18	16/9/2020	11:00AM	EXTRA NUMERICALS		
19	21/9/2020	01:30PM	**Unit 4:**Combinational Circuit:Half Adder & Full Adder		
20	22/9/2020	12:30PM	Half Adder Using universal gates:NAND & NOR		
21	22/9/2020	01:30PM	Binary/4-bit Parallel Adder.		
22	23/9/2020	11:00AM	Half & Full Subtractor with Binary/4-bit parallel subtractor.		
23	24/9/2020	10:00AM	Binary Adder-Subtractor.		
24	29/9/2020	12:30PM	Excess-3 Adder with Example.		
25	30/9/2020	11:00AM	Excess-3 Subtractor with Example.		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	1/10/2020	12:30PM	Serial Adder.		
27	6/10/2020	12:30PM	Look Ahead Carry Adder.		
28	7/10/2020	12:30Pm	2'sComplement add/sub using parallel adder.		
29	8/10/2020	10:00AM	**Unit-5:**Code converter:Binary to BCD code.		
30	9/10/2020	12:30PM	4bit binary to 2's complement conversion. BCD-to-Gray code conversion.		
31	12/10/2020	01;30PM	BCD-to-X-3 code,4 bit gray code implemented using NAND gate.		
32	13/10/2020	12:30PM	4 bit xs-3 code conversion with decimal no.		
33	14/10/2020	11:00AM	3bit BCD conversion.		
	15/10/2020	10:00-11:00	CLASS TEST 1 (STLD)		
34	16/10/2020	12:30PM	BCD-TO-7 Segment Decoder,2421,5211 code conversion.		
37	19/10/2020	1:30PM	Parity bit generator and checker.		
38	20/10/2020	12:30PM	Numericals on 4bit input Even Parity Bit Generator.		
39	21/10/2020	11:00AM	Numericals on 4bit input ODD Parity Bit Generator.		
40	22/10/2020	10:00AM	Extra problems.		
41	3/11/2020	12.30PM	Camparators with numericals		
42	5/11/2020	08:00AM	Multiplexer with numericals.		
43	6/11/2020	12:30PM	Multiplexer continue.		
44	24/11/2020	9:00AM	Demultiplexer.		
45	24/11/2020	10:00PM	Encoder-Decoder.		
46	25/11/2020	11:00AM	Priority Encoder.		
47	2/10/2020	11:00AM	Unit:-6 Flip-flop and conversion of flip-flop.		
48	3/10/2020	10:00AM	Counters: Numericals on synchronous counters.		
49	4/10/2020	12:30PM	Numericals on Asynchronous counter.Finite state machine.		

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Execution Plan

Name of Faculty: Prof. Ms. N. M. Yawale **Subject Code: 5KS01** **Section: B**

Subject Name: DC **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	12.30 t0 1.30	**Unit 1:** Introduction: Data Communication, Characteristics of Data Communication		
2	18/08/20	11 to 12	Components of data communication, Networks		
3	21/08/20	12.30 to 1.30	Distributed Processing, Data Communication Network Criteria		
4	24/08/20	12.30 to 1.30	Line configuration, Topology(Mesh, Star, Tree)		
5	25/08/20	11 to12	Topology(Bus, Ring, Hybrid), Transmission Mode		
6	27/08/20	12.30 to 1.30	Network Categories, Signal:Analog and Digital		
7	28/08/20	12.30 to 1.30	Characteristics of analog signal, Composite Signal		
8	31/08/20	12.30 to 1.30	Frequency spectrum and Bandwidth, Digital signal, Decomposition of digital signal		
9	2/09/20	11 to 12	**Unit 2:** Encoding, Modulation, Conversion methods		
10	4/09/20	10 to 11	Unipolar, NRZ-L, NRZ-I digital to digital encoding		
11	7/09/20	12.30 to 1.30	RZ encoding, Manchester and differential Manchester Encoding		
12	8/09/20	11 to 12	Bipolar Encoding (AMI, B8ZS, HDB3)		
13	9/09/20	10 to 11	Analog to digital conversion, Bit rate, Baud Rate, Nyquist Theorem		
14	11/09/20	12.30 to 1.30	Digital to analog conversion(ASK,FSK)		
15	14/09/20	11.30 t0 12.15	Digital to analog conversion (PSK,QAM)		
16	14/09/20	12.15 to 1.00	Analog to analog Conversion, Digital data transmission		
17	15/09/20	11 to 12	DTE-DCE interface, Modem, Guided Media		
18	16/09/20	10 to 11	Unguided Media, Transmission Impairment		
19	18/09/20	12.30 to 1.30	**Unit 3:** Multiplexer (FDM,WDM,TDM)		
20	21/09/20	12.30 to 1.30	Inverse Multiplexing, Carrier services, Types of Errors		
21	22/09/20	11 to 12	Error detection technique (VRC,LRC)		
22	23/09/20	10 to 11	CRC, Checksum		
23	25/09/20	12.30 to 2.30	Error Correction, Hamming code		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	28/09/20	12.30 to 1.30	**Unit 4:** Data Link Layer: Line Discipline (ENQ/ACK,POLL/SELECT)		
25	29/09/20	11 to 12	Flow control(Stop and Wait, Sliding Window)		
26	30/09/20	10 t0 11	Error control(Stop-wait ARQ, Go-back-n ARQ, Selective reject ARQ)		
27	05/10/20	11 to 12	Data Link Protocol (Asynchronous Protocol)		
28	06/10/20	11 to 12	Synchronous Protocol(Bit Oriented, Byte Oriented)		
29	07/10/20	11 to 12	SDLC,HDLC: Station Type, Configuration, Modes, Frames		
30	09/10/20	12.30 to 1.30	**Unit 5:** Local Area Network,LAN Architecture (Token ring, Token bus)		
31	12/10/20	12.30 to 1.30	LAN Architecture (ethernet, FDDI)		
32	13/10/20	11 to 12	MAN (MAN Services)		
33	15/10/20	11 to 12	SMDS		
34	16/10/20	12.30 to 1.30	ISDN		
35	19/10/20	12.30 to 1.30	OSI Model, OSI Layers		
36	20/10/20	11 to 12	**Unit 6:** Frame Relay (Introduction, services, advantages, disadvantages)		
37	21/10/20	10 to 11	Frame relay operation, Frame relay layers		
38	22/10/20	12.30 to 1.30	Congestion Control		
39	03/11/20	11 to 12	Leaky Bucket Algorithm		
40	04/11/20	10 to 11	Leaky Bucket Algorithm Example		
41	06/11/20	12.30 to 1.30	Traffic control attributes, Frame relay features		
42	23/11/20	12.30 to 1.30	revision unit 1		
43	24/11/20	11 to 12	revision unit 1		
44	25/11/20	10 to 11	revision unit 1		
45	27/11/20	12.30to 1.30	revision unit 2		
46	02/12/20	10 to 11	revision unit 2		
47	03/12/20	12.30 TO 1.30	revision unit 2		
48	07/12/20	12.30 TO 1.30	revision unit 3		
49	08/12/20	11 to 12	revision unit 3		
50	08/12/20	10 to 11	revision unit 3		

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Execution Plan

Name of Faculty: Prof. Ms. S. V. Kalbande **Subject Code: 5KS02** **Section: B**

Subject Name: FSDP **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	10-11am	**UNIT 1-**Introduction file structure design and file operations.open,close,seek,read,write.		
2	18/8/2020	1.30-2.30	Unix Directory structure and commands		
3	20/8/2020	11-12	secondary storage devices :DISK its organization		
4	29/8/2020	9-10	organization of disk drive ,non data overhead		
5	31/8/2020	10-11	Internal Fragmentation and org.of sector by block		
6	2/9/2020	12.30-1.30	Magnetic Tape & Its organization		
7	3/9/2020	11-12	CD-ROM organization pits and Land formation.		
8	5/9/2020	9-10	Buffer management and bottleneck		
9	7/9/2020	10-11	I/O UNIX system and system process with kernel		
10	8/9/2020	1.30-2.30	problems on disk drive and magnetic Tape		
11	9/9/2020	12.30-1.30	**unit 2**- Feild organization & Record organization		
12	10/9/2020	10-11	sequential access and direct access Techniques		
13	10/9/2020	11-12	File Access and file organization		
14	12/9/2020	1.30-2.30	Abstract data model,metadata,extensibility		
15	14/9/2020	10-11	portability & Standardization		
16	15/9/2020	1.30-2.30	**Unit 3**-Different compression Techniques(2 completed)		
17	16/9/2020	12.30-1.30	Run length encoding algorithm		
18	19/9/2020	1.30-2.30	Morse code and Huffman encoding		
19	21/9/2020	11-12	Storage compaction and record deletion		
20	22/9/2020	1.30-2.30	Keysorting with memory and secondary storage		
21	23/9/2020	12.30-1.30	Indexing with memory and secondary storage		
22	24/9/2020	11-12	Composer Index Record Addition,updation ,deletion		
23	26/9/2020	1.30-2.30	Pinned Records ,selective Index file		
24	28/9/2020	10-11	Binding- Tightly binding and loosely binding of records,problems on placement strategies		
25	29/9/2020	1.30-2.30	problems on Huffman Encoding		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	30/9/2020	12.30-1.30	Problems on Huffman Encoding (university problems).		
27	1/10/2020	11-12	Unit -4:Cosequential Processing Techniques,matching Algorithm		
28	3/10/2020	1.30-2.30	Merging algorithm with example		
29	5/10/2020	10-11	Heap Building Algorithm with problems		
30	6/10/2020	1.30-2.30	Heap sorting Algorithm with example		
31	7/10/2020	9-10	Replacement selection algorithm with algorithm		
32	8/10/2020	11-12	Ledger Application Program		
33	10/10/2020	9-10	Sorting files on Tapes & multiphase tape		
34	13/10/2020	1.30-2.30	Unix utilities of consequential processing		
35	14/10/2020	12.30-1.30	University questions Problems on heap building and sorting		
36	15/10/2020	11-12	**Unit-5** AVL Tree ,Advantages & problems of AVL tree		
37	17/10/2020	1.30-2.30	Paged binaryTree ,Advantages & problems of paged tree		
38	19/10/2020	10-11	Insertion of B-Tree with multilevel Index		
39	21/10/2020	12.30-1.30	Deletion of B-Tree with multilevel Index		
40	22/10/2020	11-12	Prefix Binary Tree, B++ Tree		
41	24/10/2020	1.30-2.30	Multilevel Indexing of B+ Tree		
42	03/11/2020	1.30-2.30	**Unit 6 I**ntroduction to simple Hashing Function,Algorithm		
43	04/11/2020	12.30-2.30	Record Distribution ,collison with solutions		
44	05/11/2020	11-12	Progressive Overflow Technique collision Resolution		
45	7/11/2020	1.30-2.30	Hashing with Bucket		
46	23/11/2020	10-11	Double Hashing		
47	24/11/2020	1.30-2.30	Chained progressive overflow		
48	25/11/2020	12.30-1.30	Extensible Hashing		
49	26/11/2020	11-12	Hashing with Trie		
50	28/11/2020	1.30-2.30	trie and Bucket		
51	30/11/2020	10-11	Directory structure and Bucket		
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Execution Plan

Name of Faculty: Prof. Ms. R. A. Kale **Subject Code: 5KS03** **Section: B**

Subject Name: SS **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	18/08/20	12.30-1.30	**Unit-1** Introduction to Compiling: Phases of a compiler		
2	20/08/20	10-11	Phases of a compiler		
3	21/08/20	11.30-12.30	Phases of a compiler examples		
4	24/08/20	11-12	Phases of a compiler examples		
5	25/08/20	12.30-1.30	Lexical Analysis: The role of lexical analyzer and examples of phases of compiler (2 Lect)		
7	27/08/20	10-11	input buffering		
8	28/08/20	11.30-12.30	specification of tokens		
9	02/09/20	11-12	recognition of tokens		
10	03/09/20	10-11	recognition of tokens, and language for specifying lexical analysis		
11	04/09/20	11.30-12.30	state minimization of DFA examples		
12	08/09/20	12.30-1.30	state minimization of DFA examples		
13	09/09/20	11-12	**Unit-2** Syntax Analysis: The role of the parser		
14	11/09/20	11.30-12.30	Review of context frees grammar for syntax analysis		
15	15/09/20	12.30-1.30	Review of context frees grammar for syntax analysis		
16	16/09/20	11-12	Top down parsing: recursive descent parsing		
17	18/09/20	11.30-12.30	predictive parsers		
18	22/09/20	12.30-1.30	Transition diagrams for predictive parsers and Non recursive predictive parsing		
19	23/09/20	11-12	Compute FIRST and FOLLOW		
20	24/09/20	10-11	Compute FIRST and FOLLOW		
21	25/09/20	11.30-12.30	Construction of predictive parsing tables		
22	29/09/20	12.30-1.30	Construction of predictive parsing tables		
23	30/09/20	11-12	LL (1) grammars		
24	01/10/20	10-11	Error recovery in predictive parsing		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	06/10/20	12.30-1.30	**Unit-3** Bottom up parsing: Handle pruning		
26	13/10/20	12.30-1.30	Stack implementation of Shift Reduce Parsing and conflicts during shift reduce parsing		
27	14/10/20	11-12	LR parsers: LR parsing algorithm and Construction of SLR parsing table		
28	15/10/20	11.30-12.30	SLR parser examples		
29	20/10/20	12.30-1.30	SLR parsing table and moves of SLR parser		
30	21/10/20	11-12	Construction of CLR parsing table		
31	22/10/20	10-11	CLR parsing table and moves of CLR parser		
32	23/10/20	11.30-12.30	canonical LALR parsing tables		
33	3/11/20	12.30-1.30	Error recovery in LR parsing		
34	4/11/20	11-12	SLR,CLR,LALR examples		
35	5/11/20	10-11	Unit-4 Syntax Directed Translation: Syntax directed definitions, attributes		
36	6/11/20	11.30-12.30	Dependency graphs, construction of syntax trees,Syntax directed definition for constructing syntax trees		
37	24/11/20	12.30-1.30	DAG,Top down translation		
38	25/11/20	11-12	Inherited and synthesized attribute examples		
39	26/11/20	10-11	Unit-6 Code Generation: Intermediate languages		
40	2/12/20	11-12	Translation of Declarations & Assignments statements		
41	3/12/20	10-11	Design issues of a Code generator		
42	4/12/20	11.30-12.30	Target machine, Runtime storage management		
43	8/12/20	12.30-1.30	Unit-5 Run Time Environments: Source language issues: Activation trees, control stacks		
44	9/12/20	11-12	storage organization, subdivision of run time memory, activation records		
45	10/12/20	10-11	Storage allocation strategies, static allocation, stack allocation, dangling references. Symbol table: Entries, Storage allocation		

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Execution Plan

Name of Faculty: Prof. Ms. Y. S. Alone **Subject Code: 5KS04** **Section: B**

Subject Name: STLD **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17-AUG-20	11to 12	**Unit 1 & 2**:Introduction to VHDL		
2	18-AUG-20	10 to 11	VHDL Fundamentals		
3	20-AUG-20	1:30 to 2:30	Modelling Types		
4	21-AUG-20	12:30 to 1:30	VHDL Elements: 1. Identifier		
5	24-AUG-20	2 to 3	Data Object Data Type		
6	25-AUG-20	10 to 11	Pre-defined data types, User-defined data types		
7	28-AUG-20	2 to 3	VHDL Operator, Concurrent Statements, Generate Statement.		
8	31-AUG-20	11 to 12	Process Block ,Sequential State		
9	02-SEP-20	1:30 to 2:30	Program based on Behavioral Style , Data Flow Style , Structural Style		
10	03-SEP-20	12:30 to 1:30	**Unit 3:** Minimization of Switching function by 1. Representation and simplification of K-map		
11	04-SEP-20	2 to 3	Problem based on K-map(2variable,3variable,4Variable)		
12	07-SEP-20	11to 12	Prime Implicants , Essential Prime Implicants, Redundant Prime Implicants & selective Prime Implicants.		
13	08-SEP-20	10 to 11	Problem Based on PI,EPI,SPI & RPI		
14	09-SEP-20	1:30 to 2:30	Problem Based on FPI,EFPI,SFPI & RFPI		
15	10-SEP-20	12:30 to 1:30	Problem of K-map with don't care.		
16	15-SEP-20	10 to 11	Quine McCluskey Method:Problem		
17	16-SEP-20	1:30 to 2:30	Quine McCluskey: problems with minterms+don't		
18	18-SEP-20	2 to 3	Quine McCluskey: problems with maxterm+don't		
19	21-SEP-20	11to 12	Demorgan's Law with problems.		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
20	22-SEP-20	10 to 11	Minimization & implementation of function		
21	23-SEP-20	1:30 to 2:30	Degenerated and Non-degenerated Form		
22	24-SEP-20	12:30 to 1:30	Problem based on: K-map , Q-M Methods		
23	25-SEP-20	2 to 3	**Unit 4**:Combinational Circuit: Adder(HA&FA)		
24	28-SEP-20	11to 12	Implementation of Half Adder & full Adder gate		
25	29-SEP-20	10 to 11	Half & Full Subtractor with Binary 4-bit parallel		
26	30-SEP-20	1:30 to 2:30	4 bit Binary Parallel Adder: Ripple Carry Adder		
27	01-OCT-20	12:30 to 1:30	Binary Adder-Subtractor., Excess-3 Adder , Excess-		
28	05-OCT-20	11to 12	Unit 5: Serial Adder. Look Ahead Carry Adder.		
29	06-OCT-20	10 to 11	Difference between Serial Adder and Parallel Adder		
30	07-OCT-20	1:30 to2:30	2's Complement add/sub using parallel adder		
31	09-OCT-20	2 to 3	BCD Adder		
32	12OCT-20	11 TO 12	CODE CONVERTER:Binary to Gray		
33	14-OCT-20	1:30 TO 2:30	Gray to Binary code converter		
34	15-OCT-202	12:30 TO 1:30	Binary to BCD code converter		
35	16-OCT-2020	2 TO 3	BCD TO Binary, BCD To Gray		
36	19-OCT-2020	11 TO 12	BCD TO Excess-3		
37	20-Oct-2020	10 to 11	Problem based on Code converter		
38	21-oct-2020	1:30 to 2:30	Multiplexer and Demultiplexer		
39	22-oct-2020	9 to 10	Parity Bit:Parity Generator,Parity Checker		
40	23-oct-2020	2 to 3	Comparator:1 bit and 2 bit,Encoder,Priority Encoder		
41	3-Nov-20	10 to 11	BCD to Seven segment decoder		
42	4-Nov-20	1:30 to 2:30	Unit6:Sequential CIrcuits		
43	5-NOV-20	12:30 TO 2:30	Type of Sequential Circuit		
44	6-Nov-20	2 to 3	Feedback circuit,Latch & Flip-flop		
45	23-Nov-20	11 to 12	conversion of Flip-flop:SR FF to JK FF		
46	24-Nov-20	10 to 11	conversion of Flip-flop:T FF to JK FF		
47	25-Nov-20	1:30 to 2:30	conversion of Flip-flop:SR FF to D FF		
48	26-Nov-20	12:30to 1:30	Counters		
49	2-Dec-20	1:30 to 2:30	Problem based on Asynchronous counter		
50	3-Dec-20	12:30to 1:30	Problem based on Synchronous counter		
51	4-DEC-20	2 TO 3	Design 3 bit up-down counter using JK Flip-flop		
52	8-DEC-20	10TO 11	Finite State Machine		
53	9-DEC-20	1:30 TO 2:30	Revision of unit 1 & 2		
54	10-DEC-20				

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Execution Plan

Name of Faculty: Prof. G. J. Sawale **Subject Code: 5KS01** **Section: C**

Subject Name: DC **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
01	17/8/2020	1:30 to 2:30 PM	Introduction: Components, Networks		
02	20/8/2020	10 to 11 AM	Protocols and standards, Basic Concepts: Line		
03	21/8/2020	11:30 to 12:30 PM	Topology Transmission mode		
04	24/8/2020	1:30 to 2:30 PM	Topology Transmission mode		
05	27/8/2020	10 to 11 AM	analog and digital signals, periodic and periodic		
6	28/8/2020	11:30 to 12:30 PM	time and frequency domains,		
7	31/8/2020	1:30 to 2:30 PM	composite signals, digital signals		
8	02/09/2020	11 to 12 PM	Encoding and modulating: digital –to- digital		
9	03/09/2020	10 to 11 AM	analog-to-digital conversion, digital to analog		
10	04/09/2020	11:30 to 12:30 PM	analog to analog conversion, digital data		
11	07/09/2020	1:30 to 2:30 PM	DTE-DCE interface, modems, cable modems		
12	09/09/2020	11 to 12 PM	transmission media: guided media, unguided		
13	10/09/2020	10 to 11 AM	transmission impairment.		
14	11/09/2020	11:30 to 12:30 PM	Performance, wavelength, Shannon capacity,		
15	14/09/2020	1:30 to 2:30 PM	Multiplexing: Many to one/ one to many		
16	16/09/2020	11 to 12 PM	frequency division multiplexing, wave division		
17	18/09/2020	11:30 to 12:30 PM	TDM, multiplexing applications: the telephone		
18	21/09/2020	1:30 to 2:30 PM	Error detection and correction : types of errors,		
19	23/09/2020	11 to 12 PM	VRC, Longitudinal redundancy check		
20	24/09/2020	10 to 11 AM	cyclic redundancy check, checksum		
21	25/09/2020	11:30 to 12:30 PM	error correction		
22	28/09/2020	1:30 to 2:30 PM	Data link Control: Line Discipline		
23	30/09/2020	11 to 12 PM	flow control, error control		
24	01/10/2020	10 to 11 AM	Data link Protocols: Asynchronous Protocols		

Sr	Date	Time	Topics Covered	Sign. of	Sign. of
25	05/10/2020	1:30 to 2:30 PM	synchronous protocols, character oriented		
26	06/10/2020	12:30 to 1:30PM	Bit - oriented protocols link access procedures.		
27	07/10/2020	11 to 12 PM	flow control, error control		
28	09/10/2020	11:30 to 12:30 PM	flow control, error control		
29	12/10/2020	1:30 to 2:30 PM	Local Area Networks: Ethernet, other Ethernet		
30	16/10/2020	11:30 to 12:30 PM	token bus, token ring,		
31	19/10/2020	1:30 to 2:30 PM	FDDI, Comparison, And MAN		
32	21/10/2020	11 to 12 PM	IEEE802.6 (DQDB) SMDS		
33	22/10/2020	10 to 11 AM	Switching: circuit switching, packet switching,		
34	04/11/2020	11 to 12 PM	integrated services digital networks (ISDN):		
35	05/11/2020	10 to 11 AM	Subscriber access to ISDN.		
36	23/11/2020	1:30 to 2:30 PM	Frame relay: introduction, frame relay		
37	25/11/2020	11 to 12 PM	frame relay layers, congestion control		
38	26/11/2020	10 to 11 AM	leaky bucket algorithm,& Flowchart		
39	27/11/2020	11:30 to 12:30 PM	Traffic control and other features.		
40	02/12/2020	10 to 11 AM	leaky bucket algorithm,& Flowchart		
41	04/12/2020	11:30 to 12:30 PM	Revision on I, II, III Units		
42	07/12/2020	1:30 to 2:30 PM	Revision on IV, V, VI Units		

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Execution Plan

Name of Faculty: Dr. S. R. Gupta **Subject Code: 5KS02** **Section: C**

Subject Name: FSDP **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1.	17/08/2020	11:00 to 12:00	**UNIT-I:** Introduction to File Structures and Data Processing.		
2.	18/08/2020	10:00 to 11:00	Introduction to File Structure Design.		
3.	20/08/2020	01:30 to 02:30	File processing operations : open, close, read.		
4.	21/08/2020	11:30 to 12:30	File processing operations : read, write, seek..		
5.	24/08/2020	11:00 to 12:00	Unix directory structure, Introduction to Secondary storage devices.		
6.	25/08/2020	10:00 to 11:00	Secondary Storage Devices: Disk, Organisation of Disk, Physical Placement of Sector..		
7.	27/08/2020	01:30 to 02:30	Organisation Disk, Example Estimating Disk Drive Capacity and Space Need.		
8.	28/08/2020	12:30 to 01:30	Organizing Track by Sector, Physical Placement of Sector, Organizing Block by Tracks.		
9.	31/08/2020	11:00 to 12:00	Organizing Track by Blocks, Cost of Disk Access and Numerical Problem based on same.		
10.	02/09/2020	10:00 to 11:00	Magnetic Tape: Introduction, Nine Track Tape, Estimating Tape Length Requirement.		
11.	03/09/2020	01:30 to 02:30	Magnetic Tape: Estimating Tapes other parameters. CD-ROM: Introduction, Physical Organisation, Strength & Weaknesses.		
12.	04/09/2020	12:30 to 01:30	Buffer Management: Buffer & Buffering Strategies, I/O Unix.		
13.	07/09/2020	11:00 to 12:00	**UNIT-II:** File Structuring Concept:: Introduction, Field Organisation		
14.	08/09/2020	10:00 to 11:00	File Structuring Concept:: Record Organisation		
15.	09/09/2020	12:30 to 01:30	Using classes to manipulate buffers, Record access, Record structures		
16.	10/09/2020	01:30 to 02:30	File access & file organization, Abstract data models for file access.		
17.	11/09/2020	12:30 to 01:30	Metadata, Extensibility, Portability & standardization.		
18.	14/09/2020	11:00 to 12:00	**UNIT-III:** Data Compression, Introduction, Types of Data Compression.		
19.	15/09/2020	10:00 to 11:00	Reclaiming spaces in files and Record Deletion		
20.	16/09/2020	12:30 to 01:30	Problems on Huffman Code (Variable Length Encoding Method)		
21.	18/09/2020	12:30 to 01:30	Introduction to internal sorting and Binary searching		
22.	21/09/2020	11:00 to 12:00	Keysorting, Indexing concepts.		
23.	22/09/2020	10:00 to 11:00	Indexing, Object I/O. Multiple keys indexing.		
24.	23/09/2020	12:30 to 01:30	Inverted lists, Selective indexes, Binding.		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25.	24/09/2020	01:30 to 02:30	**UNIT-IV:** Introduction to Consequential processing, Consequential processing operation MATCH function.		
26.	25/09/2020	12:30 to 01:30	Consequential processing operation MERGE procedure.		
27.	28/09/2020	11:00 to 12:00	Consequential Processing: Object-Oriented model, its application.		
28.	29/09/2020	10:00 to 11:00	A Second Look at Internal Sorting: An overlapping I/O, Heapsort, Heap Insert Function.		
29.	30/09/2020	12:30 to 01:30	File Merging: Sorting of large files on disks.		
30.	01/10/2020	01:30 to 02:30	Sorting files on tapes: Balanced Merge		
31.	05/10/2020	11:00 to 12:00	Sorting files on tapes: K-way Balanced Merge, Multiphase Merging, Polyphase and Cascade Merging.		
32.	06/10/2020	10:00 to 11:00	Sort merge packages. Sorting and Consequential processing in Unix		
33.	07/10/2020	12:30 to 01:30	**UNIT-V:** Introduction to Multilevel indexing.		
34.	08/10/2020	01:30 to 02:30	Indexing using Binary Search trees, AVL Tree, Page Binary Tree.		
35.	09/10/2020	12:30 to 01:30	B-tree and Properties of B-tree, OOP based B-trees.		
36.	12/10/2020	11:00 to 12:00	B-tree methods Search, Insert and others.		
37.	14/10/2020	10:00 to 11:00	Deletion, merging & redistribution in B-tree.		
38.	15/10/2020	01:30 to 02:30	B*trees. Virtual B-trees. VL records & keys.		
39.	16/10/2020	12:30 to 01:30	Indexed sequential file access and Prefix B+trees.		
40.	19/10/2020	11:00 to 12:00	**UNIT-VI:** Introduction to Hashing.		
41.	20/10/2020	10:00 to 11:00	A simple hashing algorithm and examples.		
42.	21/10/2020	12:30 to 01:30	Hashing functions and record distributions.		
43.	22/10/2020	01:30 to 02:30	Collision and Collision resolution method.		
44.	23/10/2020	12:30 to 01:30	Buckets, Making deletions, Pattern of record access.		
45.	03/11/2020	10:00 to 11:00	Extendible Hashing: Introduction and Example		
46.	04/11/2020	12:30 to 01:30	Extendible Hashing Implementation and Deletion.		
47.	05/11/2020	01:30 to 02:30	Extendible Hashing: Performance, Alternative approaches.		
48.	06/11/2020	12:30 to 01:30	Alternative approaches: Linear and Dynamic Hashing.		
49.	23/11/2020	11:00 to 12:00	Revision on Unit-IV		
50	24/11/2020	10:00 to 11:00	Revision on Unit-I		
51.	25/11/2020	12:30 to 01:30	Revision on Unit-I		
52.	27/11/2020	12:30 to 01:30	Revision on Unit-II		
53.	02/12/2020	12:30 to 01:30	Revision on Unit-II		
54.	03/12/2020	01:30 to 02:30	Revision on Unit-III		
55.	04/12/2020	12:30 to 01:30	Revision on Unit-III		
56.	07/12/2020	11:00 to 12:00	Revision on Unit-IV		
57.	08/12/2020	10:00 to 11:00	Revision on Unit-IV		
58.	09/12/2020	12:30 to 01:30	Revision on Unit-V		
59.	10/12/2020	01:30 to 02:30	Revision on Unit-V		

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Execution Plan

Name of Faculty: Prof. S. S. Dandge Subject Code: 5KS03 Section: C

Subject Name: SS Semester: V Year: Third Year

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17th Aug 2020	10 to 11	**UNIT-I** Introduction of Compiler , Phases of compiler		
2	18th Aug 2020	12:30 to 1:30	Problems on Phases of compiler		
3	20th Aug 2020	11 to 12	Syntax tree of For loop,do while , if-else,block		
4	24th Aug 2020	10 to 11	Problems on For loop,if-else,block statement		
5	25th Aug 2020	12:30 to 1:30	specification of tokens, Recognition of tokens,lex and yacc tools		
6	27th Aug 2020	11 to 12	definition of lexeme token and pattern , Issues of lexical analyzer		
7	31st Aug 2020	10 to 11	input buffering techniques (Single and double)		
8	2nd Sep 2020	1:30 to 2:30	Minimization of Finite automata		
9	3rd Sep 2020	11 to 12	**UNIT-II** Syntax analysis , The role of parser, definition of grammar with example (RG & CFG)		
10	7th Sep 2020	10 to 11	Derivation Tree (LMD, RMD), Ambiguous grammar		
11	8th Sep 2020	12:30 to 1:30	Definition of Top down parser with example		
12	9th Sep 2020	1:30 to 2:30	Elimination of left Recursion with example		
13	10th Sep 2020	11 to 12	Elimination of Left Factoring with example		
14	14th Sep 2020	10 to 11	Rule of FIRST () and FOLLOW() with example		
15	15th Sep 2020	12:30 to 1:30	Construction of Predictive parsing table ,LL(1)		
16	16th Sep 2020	1:30 to 2:30	Verification of the string		
17	21st Sep 2020	11 to 12	Practice Problem on LL(1)		
18	22nd Sep 2020	10 to 11	Predictive Parser by using Transition Diagram		
19	23rd Sep 2020	12:30 to 1:30	Error Recovery in Predictive Parser		
20	24th Sep 2020	1:30 to 2:30	**Unit-III** Bottom up parsing: Handle pruning		
21	28th Sep 2020	10 to 11	Stack implementation of Shift Reduce Parsing		
22	29th Sep 2020	9:00 to 10:00	Construct LR(0) Items		
23	1st Oct 2020	10 to 11	Construct SLR Parsing Table, Verification of the string		
24	1st Oct 2020	11 to 12	Problems on LR(0) -SLR		
25	7th Oct 2020	1:30 to 2:30	SR & RR Conflict in LR(0)		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	8th Oct 2020	10 to 11	LR (1) Items		
27	8th Oct 2020	11 to 12	Construct CLR Parsing table , verification of the string		
28	12th Oct 2020	10 to 11	LALR (1) Items		
29	13th Oct 2020	12:30 to 1:30	Construct LALR Parsing Table, Verification of the string		
30	14th Oct 2020	1:30 to 2:30	SR & RR Conflict in LR(1)		
31	15th Oct 2020	11 to 12	Error recovery in LR parsing		
32	19th Oct 2020	10 to 11	**Unit-IV** Syntax Directed Translation: Syntax directed definitions, attributes		
33	20th Oct 2020	12:30 to 1:30	S-attribute :Syntax directed definition with Eg.		
34	21st Oct 2020	1:30 to 2:30	Syntax directed definition for constructing syntax trees with Example		
35	22nd Oct 2020	11 to 12	Directed acyclic graphs for expressions with Eg.		
36	3rd Nov 2020	12:30 to 1:30	Bottom up evaluation of s-attributed definitions		
37	4th Nov 2020	1:30 to 2:30	L-attributed definition with example		
38	5th Nov 2020	11 to 12	Top down translation, Design of a predictive translator		
39	23rd Nov 2020	10 to 11	**Unit-V** Run Time Environments: Source language issues: Activation trees with Example		
40	24th Nov 2020	12:30 to 1:30	control stacks, storage organization, subdivision of run time memory,Storage allocation strategies, static allocation, stack allocation		
41	25th Nov 2020	1:30 to 2:30	activation records, Caller and Callee responsibility		
42	26th Nov 2020	11 to 12	Dangling references with exampleSymbol table: Entries, Storage allocation, Hash tables		
43	7th Dec 2020	10 to 11	**Unit-VI** Code Generation: Intermediate Code Gen of Assignment statement		
44	8th Dec 2020	12:30 to 1:30	Implementation of 3-Add. statement quadruples, triple and indirect triple with examples		
45	9th Dec 2020	1:30 to 2:30	Design issues of a Code generator,Target machine, Runtime storage management		
46	10th Dec 2020	11 to 12	Basic blocks and flow graphs		

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Execution Plan

Name of Faculty: Prof. R. R. Karwa **Subject Code: 5KS04** **Section: C**

Subject Name: STLD **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17-08-20	12.30-1.30	**Unit 1 & 2:** Introduction to VHDL: Fundamentals		
2	18-08-20	11-12	Elements of VHDL: Identifier, Data Object		
3	20-08-20	12.30-1.30	Elements of VHDL: Data Types		
4	21-08-20	2.00-3.00	Elements of VHDL: Operators, Building Blocks: Library, Entity		
5	24-08-20	12.30-1.30	Building Block: Dataflow, Behavior		
6	25-08-20	11-12	Building Block: Behavior, Structural		
7	27-08-20	12.30-1.30	Dataflow Architecture Examples		
8	28-08-20	2.00-3.00	Behaviour Architecture Examples		
9	31-08-20	12.30-1.30	Structural Architecture Examples		
10	02-09-20	10-11	**Unit 3**: K-map (Basics)		
11	03-09-20	12.30-11.30	K-map (Numericals-PI,EPI,RPI)		
12	04-09-20	2.00-3.00	Quine Mccluskey Method(Steps)		
13	07-09-20	12.30-1.30	Quine Mccluskey Method(Minterm,Don't care)		
14	08-09-20	11-12	Quine Mccluskey Method(Maxterm, Dont care)		
15	09-09-20	10-11	Degenerate and Non-Degenerate Form		
16	10-09-20	12.30-1.30	Degenerate and Non-Degenerate Form		
17	11-09-20	2-3	Non Degenerate Forms		
18	14-09-20	12.30-1.30	Numerical based on Two level form		
19	15-09-20	11-12	Numerical based on Realization of Expression using Universal Gate		
20	16-09-20	10-11	Revision on basics of K-map		
21	18-09-20	2-3	Revision on VHDL		
22	21-09-20	12.30-1.30	**Unit 4:** Combinational Circuit: Introduction, Adder Basics		
23	22-09-20	11-12	Combinational Circuit: HA,FA using NAND & NOR		
24	23-09-20	10-11	Combinational Circuit: HS,FS using NAND & NOR		
25	24-09-20	12.30-1.30	Binary Adder, Binary Subtractor, Binary Adder-Subtractor		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	25-09-20	2-3	Look Ahead Carry Adder		
27	28-09-20	12.30-1.30	2's complement add and subtract using parallel adder		
28	29-09-20	11-12	Adder VHDL Code		
29	30-09-20	10-11	Subtractor VHDL Code		
30	01-10-20	12.30-1.30	**Unit 5:** Binary Coded Decimal (Code), BCD Addition		
31	05-10-20	10-11(Time changed)	BCD Adder Circuit		
32	06-10-20	11-12	Introduction to EX-3 Code		
33	07-10-20	10-11	EX-3 Adder with Examples		
34	08-10-20	12.30-1.30	EX-3 Subtractor with Examples		
35	12-10-20	12.30-1.30	Code Converter- Binary to Gray		
36	13-10-20	11-12	Code Converter- Gray to Binary		
37	14-10-20	11-12 (Time changed)	Code Converter- Binary to BCD, BCD to EX-3		
38	15-10-20	12.30-1.30	Code Converter:to identify decimal numbers in 4 bit gray code		
39	16-10-20	2-3	Code Converters : XS-3 Code, 2's complement		
40	19-10-20	12.30-1.30	Code Converter-Seven Segment, Adjacent 1's		
41	20-10-20	11-12	Multiplexers		
42	21-10-20	10-11	Multiplexers Numericals		
43	22-10-20	12.30-1.30	Demultiplexer		
44	23-10-20	2-3	Decoder and numericals		
45	03-11-20	11-12	Encoder		
46	04-11-20	10-11	Parity Bit Generator and Checker		
47	05-11-20	12.30-1.30	Comparator		
48	06-11-20	2-3	**Unit 6:** Sequential Circuit- Introduction, Flipflop		
49	23-11-20	12.30-1.30	Flipflop, Conversion of FF		
50	24-11-20	11-12	Conversion of FF, basics of counter		
51	25-11-20	10-11	Asynchronous counter		
52	26-11-20	12.30-1.30	Synchronous Counter		
53	27-11-20	2-3	Examples of Synchronous Counter		
54	02-12-20	10-11	Finite State Machine- Introduction and Moore		
55	03-12-20	12.30-1.30	Finite State Machine- Mealy		
56	04-12-20	2-3	Sequential Circuit Gate Questions		
57	07-12-20	12.30-1.30	Shift Registers		
58	09-12-20	10-11	Practical based on Comparator		
59	10-12-20	10-11	Concluding remark on syllabus of STLD and Practical based on Code Converter		

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Execution Plan

Name of Faculty: Prof.P.P.Kadu **Subject Code: 5FEKS05** **Section: A**

Subject Name: DCN **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	21/08/20	03:00 To 04:00	Introduction to DC ,characteristics of DC,Components of DC,Network Criteria		
2	28/8/20	03:00 To 04:00	Topologies(Mesh,Star,Bus,Tree,Ring)		
3	29/8/20	11 To 12	Topology(Bus, Ring, Hybrid), Transmission Mode		
4	29/8/20	12 To 1	Network Categories, Signal:Analog and Digital		
5	4/9/20	3 To 4	Characteristics of analog signal, Composite Signal,Frequency spectrum and Bandwidth, Digital signal, Decomposition of digital signal		
6	5/9/20	11 To 12	Protocols and standards,Periodic Signals,Time Domain		
7	5/9/20	12 To 1	Non-Periodic Signals,Line Configuration,Frequency Domain Signals		
8	11/9/20	3 To 4	**Unit 2:** Encoding, Modulation, Conversion methods		
9	12/9/20	11 To 12	Unipolar, NRZ-L, NRZ-I digital to digital encoding		
10	12/9/20	12 To 1	RZ encoding, Manchester and differential Manchester Encoding		
11	18/9/20	3 To 4	Bipolar Encoding,Analog to digital conversion, Bit rate, Baud Rate, Nyquist Theorem		
12	19/9/20	11 To 12	Digital to analog conversion(ASK,FSK,PSK,QAM)		
13	19/9/20	12 To 1	Analog to analog Conversion,Guided Media		
14	25/9/20	3 To 4	Unguided Media,DTE-DCE interface,		
15	26/9/20	11 To 12	Modem,Transmission Impairment.		
16	26/9/20	12 To 1	**Unit 3:** Multiplexing (FDM,WDM,TDM)		
17	03/10/20	11 To 12	Multiplexing (FDM,WDM,TDM)		
18	03/10/20	12 To 1	Inverse Multiplexing, Carrier services, Types of Errors		
19	09/10/20	11 To 12	Error detection technique (VRC,LRC)		
20	10/10/20	11 To 12	CRC, Checksum		
21	10/10/20	12 To 1	Error Correction, Hamming code		
22	16/10/20	3 To 4	**Unit 4:** Data Link Layer: Line Discipline (ENQ/ACK,POLL/SELECT)		
23	17/10/20	11 To 12	Flow control(Stop and Wait, Sliding Window)		
24	17/10/20	12 To 1	Error control(Stop-wait ARQ, Go-back-n ARQ, Selective reject ARQ)		
25	23/10/20	3 To 4	Data Link Protocol (Asynchronous Protocol)		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	24/10/20	11 To 12	Synchronous Protocol(Bit Oriented, Byte Oriented)		
27	24/10/20	12 To 1	SDLC,HDLC: Station Type, Configuration, Modes, Frames		
28	06/11/20	3 To 4	**Unit 5:** Local Area Network,LAN Architecture (Token ring, Token bus)		
29	07/11/20	11 To 12	LAN Architecture (ethernet, FDDI)		
30	07/11/20	12 To 1	MAN (MAN Services)		
31	27/11/20	3 To 4	SMDS, Switching: circuit switching		
32	04/12/20	3 To 4	packet switching, message switching.		
33	05/12/20	11 To 12	**Unit 6:** Networking and Internetworking Devices		
34	05/12/20	12 To 1	Transport Layer: Functions of transport layer		
35	11/12/20	3 To 4	connection, the OSI transport protocol,		
36	12/12/20	11 To 12	OSI Model,upper OSI Layer		
37	12/12/20	12 To 1	Session layer, presentation layer, Application Layer.		

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Execution Plan

Name of Faculty: Prof. Ms. M. A. Deshmukh Subject Code: 5FEKS05 Section: B

Subject Name: DCN Semester: V Year: Third Year

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	21/08/2020	3-4 pm	Unit 1: Introduction to DCN, effectiveness of data communication		
2	28/08	3-4pm	components of DC,distributed processing		
3	29/08	11am-1pm	Network criteria,protocols & standards,line config.		
4	04/09	3-4pm	Topology		
5	05/09	11am-1pm	Transmission mode, analog and digital signals, periodic and aperiodic signals, analog signals		
6	11/9	3-4pm	time and frequency domains, composite signals, digital signals.		
7	12/9	11am-1pm	Unit 2: Encoding and modulating: digital –to- digital conversion, analog-to-digital conversion,		
8	19/9	11am-1pm	digital to analog conversion, analog to analog conversion,		
9	25/9	3-4pm	digital data transmission, DTEDCE		
10	26/9	11am-1pm	transmission media:guided media, unguided media, transmission impairment		
11	3/10	11am-1pm	.Unit 3: Multiplexing: Many to one/ one to many, frequency division, multiplexing, wave division multiplexing, TDM,		
12	9/10	3-4pm	multiplexing, applications: the telephone system ,		
13	10/10	11am-1pm	Error detection and correction : types of errors, detection , cyclic redundancy check, checksum, error correction.		
14	17/10	11am-1pm	Unit 4: Data link Control: Line Discipline, flow control, error control		
15	23/10	3-4pm	Data link Protocols: Asynchronous Protocols, synchronous protocols		
16	24/10	11am-1pm	character oriented protocols, bit - oriented protocols. Unit 6: Networking and Internetworking Devices: Repeaters, Bridges,		
17	6/11	3-4pm	Routers, Gateways. Transport Layer: Functions of transport layer, connection, the OSI transport protocol,		
18	7/11	11am-1pm	upper OSI Layer: Session layer, presentation layer, Application Layer		
19	27-11	3-4pm	.Unit 5: Local Area Networks: Ethernet, other Ethernet networks,		
20	4/12	3-4pm	token bus, token ring, FDDI, MAN: IEEE802.6 (DQDB) SMDS,		
21	5/12	11am-1pm	Switching: circuit switching, packet switching, message switching.		

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Execution Plan

Name of Faculty: Prof. A. O. Sable **Subject Code: 5FEKS05** **Section: C**

Subject Name: DSA **Semester: V** **Year: Third Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1.	21/08/20	3 to 4	Unit 1: Introduction to Data Structure & operation of data structure		
2.	28/08/20	3 to 4	Algorithmic And Asymphotic Notation of Data Structure		
3.	29/08/20	11 to 12	String, String Operation and Sting Storage		
4.	29/08/20	12 to 1	First pattern Matching Algorithm		
5.	04/09/20	3 to 4	Pattern Matching Graph & Table		
6.	05/09/20	11 to 12	Second Pattern matching Algorithm		
7.	05/09/20	12 to 1	Unit 2 : Linear Array		
8	11/09/20	3 to 4	Memory Representation Of linear Array		
9	12/09/20	11 to 12	Operation on linear Array , Traversing		
10	12/09/20	12 to 1	Insertion ,Deletion And their Algorithm		
11	18/09/20	3 to 4	Sorting: Bubble Sort		
12	19/09/20	11 to 12	Searching: Linear Search, Binary Search		
13	25/09/20	3 to 4	Multidimensional Array, Pointer Array		
14	26/09/20	11 to 12	Record : Record Structure		
15	26/09/20	12 to1	UNIT 3: Linked List		
16	03/10/20	11 to 12	Memory Representation of linked List		
17	03/10/20	12 to1	Operation on Linked List,Traversing , Searching		
18	09/10/20	3 to 4	Memory Allocation Or Garbage collection		

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Execution Plan

Name of Faculty: Prof. Ms. P. B. Lohiya **Subject Code: 7KS01** **Section: A**

Subject Name: DSP **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	11:00 AM	Syllabus discussion, Signal, System, Analog Digital Conversion		
2	18/8/20	1:30 PM	A to D Numerics, Nyquist Rate		
3	20/8/20	12:00 noon	Folding Frequency, Nyquist Rate, D to A numerics		
4	20/8/20	2:30 PM	Discrete sequence sketch problem		
5	21/8/20	11:00 AM	Representation of signals, Problems on A to D		
6	24/8/20	11:00 AM	Standard discrete sequences		
7	27/8/20	2:30 PM	Operations on discrete sequence		
8	28/8/20	11:00 AM	Problems on discrete sequence operations		
9	31/8/20	11:00 AM	Shifting, Folding Problems		
10	03/9/20	2:30 PM	Multiplication, Addition Discrete sequence		
11	04/9/20	11:00 AM	Classification of discrete systems		
12	07/9/20	11:00 AM	Static, Dynamic, Causal, Non-causal system		
13	08/9/20	1:30 PM	Linera, Nonlinear, Time Variant/Invariant system		
14	10/9/20	2:30 PM	BIBO stable/ unstable and numerics		
15	11/9/20	11:00 AM	Revision, Question bank discussion and assignment		
16	15/9/20	1:30 PM	Unit: 2: Correlation and its types		
17	16/9/20	11:00 AM	Cross-correlation and its problems		
18	18/9/20	11:00 AM	Auto-correlation and its problems		
19	21/9/20	11:00 AM	Convolution		
20	22/9/20	1:30 PM	Convolution		
21	25/9/20	12:00 noon	Convolution Problems		
22	30/9/20	11:00 AM	Convolution Problems		
23	30/9/20	2:30 PM	Difference Equation of impulse response		
24	1/10/20	2:30 PM	Difference Equation of unit step		
25	5/10/20	11:00 AM	Difference Equation Problems		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	6/10/20	1:30 PM	Summary of Second Unit, Revision		
27	13/10/20	1:30 PM	Unit 3: Z transform definition		
28	15/10/20	2:30 PM	Z transform sequence problems		
29	3/11/20	1:30 PM	Z transform cases		
30	5/11/20	2:30 PM	Z transform cases		
31	6/11/20	11:00 AM	Z transform Properties		
32	6/11/20	12:00 NOON	Z transform Properties		
33	6/11/20	2:30 PM	Z transform Numericals based on Properties		
34	23/11/20	11:00 AM	Inverse Z Transform Long division method		
35	24/11/20	1:30 PM	Partial Fraction and Residue Method		
36	26/11/20	2.30 PM	Residue Method		
37	27/11/20	11:00 AM	Pole-zero method, summary of Z-transform		
38	27/11/20	12:00 NOON	Fourier transform basics, introduction		
39	3/12/20	2.30 PM	Properties of Fourier transform		
40	4/12/20	11:00 AM	DFT		
41	7/12/20	11:00 AM	IDFT		
42	8/12/20	12:00 NOON	Circular Convolution		
43	8/12/20	1:30 PM	DIT-FFT, DIF-FFT		
44	10/12/20	2.30 PM	Phase and Magnitude		
45	11/12/20	2:30 PM	IIR, FIR Filter		
46	14/12/20	12:00 NOON	IIR Filter Direct I and II Form		
47	15/12/20	1:30 PM	FIR Filter, Cascade, Linear phase structure		
48	15/12/20	2:30 PM	Mapping Techniques		
49	18/12/20	2:30 PM	Impulse Invariant, Z Transform Mapping		
50	21/12/20	12 Noon	Approximation and Bilinear Mapping		
			Total 50 Lectures-Syllabus Completed		

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Execution Plan

Name of Faculty: Dr. P. K. Agrawal **Subject Code: 7KS02** **Section: A**

Subject Name: CN **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	18-Aug-20	11 to 12	Introduction: Brief history of computer networks & Internet		
2	19-Aug-20	1:30-2:30	Layered architecture,,		
3	21-Aug-20	11 to 12	Internet protocol stack		
4	28-Aug-20	11 to 12	Network entities & layers		
5	3-Sep-20	1:30-2:30	Application layer: Principles of protocols		
6	4-Sep-20	11 to 12	HTTP		
7	9-Sep-20	1:30-2:30	FTP,		
8	10-Sep-20	1:30-2:30	IMAP & POP Protocols		
9	11-Sep-20	11 to 12	SMTP protocols		
10	14-Sep-20	1:30-2:30	DNS protocols		
11	16-Sep-20	1:30-2:30	Root Name Server		
12	17-Sep-20	1:30-2:30	Authoritative Name Server		
13	18-Sep-20	11 to 12	Transport layer: services & principles		
14	21-Sep-20	1:30-2:30	multiplexing &demultiplexing applications		
15	23-Sep-20	1:30-2:30	demultiplexing applications		
16	24-Sep-20	1:30-2:30	UDP		
17	25-Sep-20	11 to 12	principles of reliable data transfer		
18	28-Sep-20	1:30-2:30	RDT 1.0, RDT 2.0		
19	30-Sep-20	1:30-2:30	RDT 2.1,RDT 2.2		
20	1-Oct-20	1:30-2:30	RDT 3.0		
21	5-Oct-20	1:30-2:30	TCP details,		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
22	9-Oct-20	11 to 12	principles of congestion control Scn.1		
23	12-Oct-20	1:30-2:30	principles of congestion control Scn.2 & Scn.3		
24	14-Oct-20	1:30-2:30	TCP congestion control.		
25	15-Oct-20	1:30-2:30	Network layer: network service model		
26	22-Oct-20	1:30-2:30	routing principles		
27	2-Nov-20	1:30-2:30	Global Routing Protocols		
28	4-Nov-20	1:30-2:30	Decentralized Routing Protocols		
29	5/11/20202	1:30-2:30	Distance Vector Routing Algorithm, Comparison of LS and DV algorithms		
30	6/11/20202	1:30-2:30	Hierarchical Routing, Intra-AS and Inter-AS routing		
31	10/11/2020 2	11:00-12:00	The Internet Network layer, IP Addressing, IP datagram format, IP Fragmentation & Reassembly,		
32	11/11/2020 2	1:30-2:30	inside router, router internals, switching fabrics		
33	24/11/2020 2	11:00-12:00	DHCP, IPV6		
34	25/11/2020 2	1:30-2:30	**Unit 5** Network Security, language of cryptography, Symmetric key crypto		
35	26/11/2020 2	1:30-2:30	DES, AES, Public Key Cryptography		
36	27/11/2020 2	1:30-2:30	encryption algorithms, RSA algorithm		
37	2/12/2020	1:30-2:30	Digital Signatures, Message Digests		
38	3/12/2020	1:30-2:30	Internet checksum, Hash Function Algorithms MD5		
39	4/12/2020	1:30-2:30	Key Distribution Center (KDC), CA, Diff between KDC & CA, Firewall types, details, limitations		
40	8/12/2020	11:00-12:00	Secure-Email, PGP, SSL		
41	9/12/2020	1:30-2:30	**Unit 6:** Network Management, scenarios & Infrastructure for NW		
42	10/12/2020	1:30-2:30	NW management standards, OSI CMIP, SNMP, 4 Key parts of SNMP,		
43	11/12/2020	1:30-2:30	MIB, SMI: data definition language, SNMP MIB, SNMP protocol, message types,		
44	15/12/2020	11:00-12:00	SNMP message format, SNMP security, ASN.1, TLV encoding		

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Execution Plan

Name of Faculty: Prof. S. V. Deshmukh **Subject Code: 7KS03** **Section: A**

Subject Name: DAA **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	1.30	**UNIT:-1** Iterative Algorithm Design Issue: Introduction		
2	21/8/20	2.30	Use of Loops, Efficiency of Algorithms		
3	24/8/20	1.30	Estimating & Specifying Execution Times		
4	27/8/20	12	Order Notations, Algorithm Strategies		
5	28/8/20	2.30	Design using Recursion.		
6	31/8/20	1.30	**UNIT:-2** Divide And Conquer: Introduction		
7	2/9/20	11	Multiplication Algorithm and its analysis		
8	3/9/20	12	Introduction to Triangulation, Convex Hulls		
9	4/9/20	2.30	Stressen's Matrix Multiplication Algorithm		
10	7/9/20	1.30	Problems on Stressen's Matrix		
11	9/9/20	11	Binary Search, Recursive, Non Recursive Algorithm		
12	10/9/20	12	Merge Sort Algorithm and its Problem		
13	11/9/20	2.30	Drawbacks of D & C & Timing Analysis.		
14	14/9/20	11	**UNIT:-3** Greedy Methods: Introduction		
15	14/9/20	1.30	Knapsack Algorithm and Problem,		
16	18/9/20	2.30	Problems on Knapsack		
17	21/9/20	1.30	Job sequencing with deadlines		
18	23/9/20	11	Problems on Job sequencing		
19	24/9/20	12	Minimum Spanning Trees, Prim's Algorithms, Kruskal's Algorithm,		
20	25/9/20	2.30	Problems on Minimum Spanning Trees		
21	28/9/20	11	Dijkstras Shortest Path Algorithm.		
22	28/9/20	1.30	Problems on Dijkstras Shortest Path Algorithm		
23	29/9/20	1.30	**UNIT:-4** Dynamic Programming: Introduction		
24	01/10/20	12	Multistage Graphs and its problem		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	05/10/20	12	Problems on Multistage Graphs		
26	07/10/20	11	Introduction on Traveling Salesman		
27	8/10/20	12	Problems on Traveling Salesman		
28	9/10/20	2.30	Matrix multiplication		
29	12/10/20	1.30	Longest Common Subsequences		
30	14/10/20	11	Optimal Polygon Triangulation		
31	15/10/20	12	Single Source Shortest Paths		
32	04/11/20	11	UNIT:-5 Backtracking: Combinational Search		
33	5/11/20	12	Search & Traversal		
34	23/11/20	1.30	Backtracking Strategy		
35	26/11/20	12	Backtracking Framework, and		
36	27/11/20	2.30	Some typical State Spaces		
37	02/12/20	11	n Queen problem		
38	03/12/20	12	Graph Colouring problem		
39	4/12/20	2.30	**UNIT:-6** Efficiency of Algorithm: Polynomial Time & Non Polynomial Time Algorithms		
40	07/12/20	1.30	Polynomial Time & Non Polynomial Time Algorithms		
41	9/12/20	11	Worst and Average case Behavior, Time Analysis of Algorithm		
42	10/12/20	12	Time Analysis of Algorithm		
43	11/12/20	2.30	Efficiency of Recursion, Complexity		
44	14/12/20	1.30	Examples of Complexity Calculation for Various Sorting algorithms.		
45	16/12/20	11	Time-Space Trade off and Time-Space Trade off in algorithm research.		
46	17/12/20	12	Revision of floyd's Algorithm(All pair shortest path)		

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OOAD Execution Plan

Name of Faculty: Dr. M. A. Pund **Subject Code: 7KS04** **Section: A**

Subject Name: OOAD **Semester: VIII** **Year: Final Year**

Sr. No	Date	Topics Covered	Attendance Sign Faculty	Sign. of HOD
01	17/08/20	Unit-1: Introduction to OOAD, Objectives and Outcomes of the course		
02	18/08/20	Aspects of Object Orientation & Methodology		
03	19/08/20	Modeling as Design Technique		
04	20/08/20	Object Oriented themes,		
05	21/8/20	Class Modeling, Abstraction, Three Models		
06	24/8/20	Object and class concepts,		
07	27/8/20	Link and association concepts		
08	28/8/20	Navigation of class models		
09	31/8/20	Unit-2:Advanced object and class concepts		
10	03/9/20	Association Ends, N-array association, Aggregation		
11	04/9/20	Abstract classes, Multiple inheritance		
12	07/9/20	Metadata, Reification, Constraints, Derived data, Packages		
13	08/9/20	State Modeling: Events, States		
14	10/9/20	Transitions and Conditions		
15	11/9/20	State diagrams, State diagram behavior.		
16	15/9/20	Unit-3 Nested state diagram, Signal Generalization		
17	16/9/20	Nested states, Concurrency, Relation of class and state models		
18	18/9/20	Use case model		
19	21/9/20	Sequence models		
20	22/9/20	Activity models, Use case relationships		
21	25/9/20	Procedural sequence model		
22	30/9/20	Special constructs for activity models		
23	30/9/20	Unit-4 Development stages		

Sr. No	Date	Topics Covered	Sign. of Faculty	Sign. of HOD
24	1/10/20	Development life cycle, Devising a system concepts		
25	5/10/20	Elaborating a concepts, Preparing a problem statements		
26	07/10/20	Overview of analysis, Domain class models,		
27	8/10/20	Unit-5 Application Analysis. Overview of System Design		
28	9/10/20	Estimating Performance, Making a reuse plan		
29	12/10/20	Breaking a system into subsystems, Identifying Concurrency		
30	14/10/20	Allocation of subsystems, Management of data storage		
31	15/10/20	Handling global resources		
32	04/11/20	Handling boundary conditions, Setting trade-off priorities		
33	5/11/20	Architecture of the ATM system.		
34	23/11/20	Choosing a software control strategy		
35	26/11/20	Unit-6 Overview of class design,		
36	27/11/20	Realizing the use cases, Designing algorithm		
37	02/12/20	Recurring Downwards, Refactoring		
38	03/12/20	Design Optimization, Reification of behavior		
39	07/12/20	Adjustment of Inheritance		
40	9/12/20	Organizing a class design, ATM examples		
41	10/12/20	Iterative Development, Managing models, Legacy system		
42	11/12/20	Revision		

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Execution Plan

Name of Faculty: Prof. A. R. Mune **Subject Code: 7KS05** **Section: A**

Subject Name: WE **Semester: VIII** **Year: Final Year**

Sr.No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/2020	2:30 PM	**UNIT:-1 Introduction to Web**		
2	18/08/2020	12:00 PM	Protocol Governing the Web		
3	21/08/2020	12:00 PM	Web Architecture, Web Server, Web Browser		
4	24/08/2020	2:30 PM	Major issues in the Web Development		
5	25/08/2020	12:00 PM	Internet Standard, TCP/IP Protocol Suits		
6	28/08/2020	12:00 PM	IP Address, MIME, Cyber Laws		
7	31/08/2020	2:30 PM	HyperText Transfer Protocol(HTTP): Web Server & Client. Resources. URL & Its Anatomy		
8	02/09/2020	02:30 PM	Message Format, Persistent & Non Persistent, Web Catching. Proxy		
9	04/09/2020	12:00 PM	UNIT:2-Hypertext Markup Language(HTML): History of HTML Basics		
10	07/09/2020	2:30 PM	Elements, Attributes & Tags of HTML, Basics Tags		
11	08/09/2020	12:00 PM	Advanced Tags, Frames, Images, Meta Tag		
12	09/09/2020	2:30 PM	Planning of Web Pages, Model & Structure of Web		
13	10/09/2020	10:00	Designing of Web pages, Multimedia Content		
14	11/09/2020	2:30 PM	Cascading style sheet(CSS): Introduction, Advantages, Adding CSS. Browser Compatibility		
15	15/09/2020	12:00 PM	CSS and Page Layout, Selectors,		
16	16/09/2020	2:30 PM	Grouping , Type Selectors.		
17	18/09/2020	12:00 PM	UNIT:3-Extensible Markup Language: Common usage		
18	21/09/2020	2:30 PM	Role of XML, Prolog, Body Elements		
19	22/09/2020	12:00 PM	Attributes, Validation, Displaying XML		
20	23/09/2020	1:30 PM	Namespace, XML DTD		
21	24/09/2020	2:30 PM	Introduction to DTD, Purpose of DTD,		
22	25/09/2020	11:00	DTD in XML Documents, Element Type Declaration, .		
23	28/09/2020	2:30 PM	Attribute Declaration, Entity Declaration,		
24	29/09/2020	12:00 PM	DTD Validation		

Sr.No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
25	05/10/2020	2:30 PM	**UNIT:4-W3c XML Schema: Introduction,**		
26	06/10/2020	12:00 PM	Limitation of DTD, Strength of Schema		
27	12/10/2020	2:30 PM	Schema Structure		
28	14/10/2020	2:30 PM	Element Declaration		
29	03/11/2020	12:00 PM	Schema Validation		
30	04/11/2020	2:30 PM	Built in Data type		
31	23/11/2020	2:30 PM	Declaring simple Elements		
32	24/11/2020	12:00 PM	**UNIT:5-Java Script: Introduction**		
33	25/11/2020	2:30 PM	Variables, Literals, Operator		
34	02/12/2020	2:30 PM	Control Structure		
35	04/12/2020	12:00 PM	Conditional Statements		
36	07/12/2020	2:30 PM	Array, Function		
37	09/12/2020	2:30 PM	Parameter Passing, Function pointer		
38	11/12/2020	12:00 PM	Inner/Nested Functions, objects		
39	14/12/2020	2:30 PM	**UNIT:6-Common Gateway Interface (CGI):**		
40	15/12/2020	12:00 PM	Language for CGI,Application, Server Environment,		
41	16/12/2020	1:30 PM	Environment Variable, Enhancement in CGI,CGI Building Blocks, CGI Scripting using C,		
42	18/12/202	12:00 PM	Shell Script, Writing CGI Program,CGI Security, Alternative and Enhancement in CGI		

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Execution Plan

Name of Faculty: Prof. A. A. Chaudhari **Subject Code: 7KS01** **Section: B**

Subject Name: DSP **Semester: VIII** **Year: Final Year**

Sr. No	Date	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/2020	Syllabus discussion, Signal, System, Analog Digital Conversion		
2	18/08/2020	A to D Numerics, Nyquist Rate		
3	21/08/2020	Folding Frequency, Nyquist Rate, D to A numerics		
4	24/08/2020	Discrete sequence sketch problem		
5	25/08/2020	Representation of signals, Problems on A to D		
6	28/08/2020	Standard discrete sequences		
7	31/08/2020	Operations on discrete sequence		
8	02/09/2020	Problems on discrete sequence operations		
9	04/09/2020	Shifting, Folding Problems		
10	07/09/2020	Multiplication, Addition Discrete sequence		
11	08/09/2020	Classification of discrete systems		
12	09/09/2020	Static, Dynamic, Causal, Non-causal system		
13	10/09/2020	Linera, Nonlinear, Time Variant/Invariant system		
14	15/09/2020	BIBO stable/ unstable and numerics		
15	16/09/2020	Revision, Question bank discussion and assignment		
16	18/09/2020	Unit: 2: Correlation and its types		
17	21/09/2020	Cross-correlation and its problems		
18	22/09/2020	Auto-correlation and its problems		
19	23/09/2020	Convolution		
20	24/09/2020	Convolution		
21	28/09/2020	Convolution Problems		
22	29/09/2020	Convolution Problems		
23	30/09/2020	Difference Equation of impulse response		
24	29/09/2020	Difference Equation of unit step		
25	30/09/2020	Difference Equation Problems		

Sr. No	Date	Topics Covered	Sign. of Faculty	Sign. of HOD
26	1/10/2020	Summary of Second Unit, Revision		
27	7/10/20	Unit 3: Z transform definition		
28	**8/10/20**	Z transform sequence problems		
29	9/10/20	Z transform cases		
30	12/10/20	Z transform cases		
31	13/10/20	Z transform Properties		
32	14/10/20	Z transform Properties		
33	15/10/20	Z transform numericals based on Properties		
34	23/10/20	Inverse Z Transform Long division method		
35	4/11/20	Partial Fraction and Residue Method		
36	5/11/20	Residue Method		
37	24/11/20	Pole-zero method, summary of Z-transform		
38	25/11/20	Fourier transform basics, introduction		
39	26/11/20	Properties of fourier transform		
40	27/11/20	DFT		
41	2/12/20	IDFT		
42	3/12/20	Circular Convolution		
43	4/12/20	DIT-FFT, DIF-FFT		
44	7/12/20	Phase and Magnitude		
45	8/12/20	IIR, FIR Filter		
46	08/12/20	IIR Filter Direct I and II Form		
47	10/12/20	FIR Filter, Cascade, Linear phase structure		
48	10/12/20	Mapping Techniques, Impulse Invariant, Z Transform Mapping		

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Execution Plan

Name of Faculty: Dr. G. R. Bamnote **Subject Code: 7KS02** **Section: B**

Subject Name: CN **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/2020	12.00 pm	Unit I : Introduction, need and outcomes		
2	18/08/2020	12.00 pm	Services and history of Internet		
3	20/08/2020	11.00am	Principles of Application Layer Protocols		
4	25/08/2020	12.00pm	History		
5	27/08/2020	11.00am	Application Layer : Network application		
6	31/08/2020	12.00pm	Address Processing		
7	1/09/2020	12.00 pm	Web & HTTP		
8	2/09/2020	1.30 pm	Response Time Modelling		
9	4/09/2020	11.00am	Method Type		
10	8/09/2020	12.00pm	FTP		
11	9/09/2020	1.30 pm	Email, SMTP		
12	10/09/2020	11.00 am	Mail Access Protocol		
13	15/09/2020	1.30pm	DNS		
14	16/09/2020	11.00am	Unit II: Transport Layer Transport services and protocols		
15	18/09/2020	11.00am	UDP , UDP checksum		
16	21/09/2020	11.00 am	Principles of Reliable data transfer		
17	22/09/2020	1.30pm	RDT 2.0		
18	23/09/2020	11.00am	RDT3.0		
19	24/09/2020	11.00am	Pipelining Protocols GBN		
20	28/09/2020	11.00 am	SR Protocol, TCP segment structure		
21	29/09/2020	12.00 noon	RTT and Time out Estimation		
22	30/09/2020	1.30 pm	TCP Connection management		
23	29/09/2020	12.00 noon	RTT and Time out Estimation		
24	30/09/2020	1.30 pm	TCP Connection management		
23	1/10/2020	11.00am	Principles of Congestion Control		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	6/10/2020	11.00	Congestion Control approaches (II Unit Complete)		
27	14/10/2020	2.30 pm	III Unit: Network Layer, Intro & Network Service model		
28	3/11/2020	12.00 pm	Routing Principals		
29	4/11/2020	1.30 pm	Link State Algorithm		
30	5/11/2020	11 .00am	Distance Vector Algorithm		
31	23/11/2020	11.00am	IP addressing, IP datagram Format,		
32	24/11/2020	12.00 pm	DHCP, NAT		
33	25/11/2020	1.30 pm	Routing in the Internet		
34	26/11/20	11.00 am	IPV6		
35	2/12/20	11.00 am	IV Unit : Data Link Layer, Services		
36	3/12/20	12.00 pm	Multiple Link Access Protocol		
37	7/12/20	12.00 pm	LAN addresses and ARP		
38	9/12/20	1.30 pm	Ethernet		
39	10/12/20	11.00 am	Point to Point Protocol		
40	14/12/20	12.00 pm	V : Network Work Security, Principle of security		
41	15/12/20	12.00pm	Public Key DES Algorithm		
42	16/12/20	11.00 am	RSA, Digital Signature		
43	17/12/20	1.00 pm	Message Digest, KDC, CA		
44	18/12/2020				
45	21/12/2020				
46	22/12/2020				

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Execution Plan

Name of Faculty: Prof. Ms. N. V. Pardakhe Subject Code: 7KS03 Section: B

Subject Name: DAA Semester: VIII Year: Final Year

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	1.30	Introduction to algorithms, its Properties and characteristics		
2	20/8/20	12.00	Methods for designing efficient algorithms		
3	21/8/20	1.30	Methods for designing efficient algorithms		
4	27/8/20	12.00	Estimating and specifying execution times		
5	28/8/20	1.30	design using recursion		
6	31/8/20	1.30	diff between recursive and iterative algorithms		
7	2/9/20	11.00	asymptotic notations		
8	3/9/20	12.00	omega and theta notation		
9	4/9/20	1.30	Greedy Algorithm: Introduction		
10	7/9/20	1.30	Knapsack Examples		
11	8/9/20	12.00	Knapsack Algorithm		
12	9/9/20	11.00	Job Sequencing Problem		
13	10/9/20	12.00	Minimum Spanning Tree		
14	11/9/20	1.30	Kruskal's Algorithm		
15	14/9/20	1.30	Prim's Algorithm		
16	16/9/20	11.00	Examples to find MST using both Prim's and Kruskal's		
17	18/9/20	1.30	Dijkstra Algorithm		
18	21/9/20	1.30	Dynamic programming: Multistage graph		
19	23/9/20	11.00	Multistage graph Example		
20	24/9/20	12.00	Floyd algorithm		
21	25/9/20	1.30	Floyd algorithm		
22	28/9/20	1.30	Matrix Multiplication		
23	30/9/20	11.00	Matrix Multiplication :Example		
24	1/10/20	12.00	Longest Common Subsequence		
25	5/10/20	1.30	Longest Common Subsequence		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	7/10/20	1.30	Travelling Salesman Problem		
27	**8/10/20**	**11.00**	Travelling Salesman Problem		
28	9/10/20	12.00	Definition of Backtracking,Backtracking Strategy		
29	12/10/20	1.30	Search & Traversal		
30	13/10/20	1.30	Depth first search		
31	14/10/20	1.30	breadth first search		
32	15/10/20	12.00	Queen problem		
33	23/10/20	1.30	Graph Coloring		
34	4/11/20	11.00	Hamiltonian circuit		
35	5/11/20	12.00	Divide And Conquer: Introduction		
36	24/11/20	1.30	Binary Search, Merge Sort		
37	25/11/20	11.00	Multiplication Algorithm and its analysis		
38	26/11/20	12.00	Strassen Matrix Multiplication		
39	27/11/20	1.30	Closest Pair between points		
40	2/12/20	11.00	Triangulation and Covex Hull		
41	3/12/20	12.00	Polynomial Time & Non Polynomial Time Algorithms, Worst and Average case Behaviour		
42	4/12/20	1.30	Efficiency of Recursion		
43	7/12/20	1.30	Examples of Complexity Calculation for Various Sorting algorithms. Time-Space Trade off and Time-Space Trade off in algorithm research.		
44	8/12/20	11.00	Revision of Unit-1		
45	10/12/20	12.00	Revision of Unit-3		

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Execution Plan

Name of Faculty: Prof. Ms. S. H. Kuche **Subject Code: 7KS04** **Section: B**

Subject Name: OOAD **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1.	18/8/2020	11am to 12pm	Unit-1: Introduction to OOAD, Objectives and Outcomes of the course		
2.	20/8/2020	1:30 to 2:30 pm	Object Oriented Methodology and Development, OO Themes		
3.	21/8/2020	11am to 12pm	Modeling as a design technique		
4.	25/8/2020	11am to 12pm	Modeling Concept, Abstraction, Class Modeling		
5.	27/8/2020	1:30 to 2:30 pm	Object and class concepts, Link and association concepts		
6.	28/8/2020	11am to 12pm	Generalization & Inheritance		
7.	2/9/2020	2:30 to 3:30 pm	Navigation of class models		
8.	3/9/2020	1:30 to 2:30 pm	Unit-2:Advanced object and class concepts		
9.	7/9/2020	11am to 12pm	Association Ends, N-array association, Aggregation		
10	8/9/2020	12 to 1 pm	Abstract classes, Multiple inheritance		
11	9/9/2020	11 am to 12 pm	Metadata, Reification,Constraints, Derived data, Packages		
12	10/9/2020	1:30 to 2:30 pm	State Modeling: Events, States		
13	11/9/2020	1:30 to 2:30 pm	Transitions and Conditions		
14	15/9/2020	12 to 1 pm	State diagrams, State diagram behavior.		
15	16/9/2020	2:30 to 3:30 pm	Unit-3 Nested state diagram, Signal Generalization		
16	18/9/2020	11 am to 12 pm	Nested states, Concurrency,Relation of class and state models		
17	22/9/2020	11 am to 12 pm	Use case model		
18	23/9/2020	2:30 to 3:30 pm	Sequence models		
19	24/9/2020	1:30 to 2:30 pm	Activity models, Use case relationships		
20	25/9/2020	11 am to 12 pm	Procedural sequence model		
21	29/9/2020	11 am to 12 pm	Special constructs for activity models		
22	30/9/2020	2:30 to 3:30 pm	Unit-4 Development stages		
23	1/10/2020	1:30 to 2:30 pm	Development life cycle,Devising a system concepts		
24	5/10/2020	11 am to 12 pm	Elaborating a concepts, Preparing a problem statements		
25	6/10/2020	11 am to 12 pm	Overview of analysis, Domain class models,		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	15/10/2020	1:30 to 2:30 pm	Domain state model, Domain Interaction model		
27	16/10/2020	11 am to 12 pm	Unit-5 Application Analysis. Overview of System Design		
28	3/11/2020	11 am to 12 pm	Estimating Performance, Making a reuse plan		
29	4/11/2020	2:30 to 3:30 pm	Breaking a system into subsystems, Identifying Concurrency		
30	5/11/2020	1:30 to 2:30 pm	Allocation of subsystems, Management of data storage		
31	6/11/2020	11 am to 12 pm	Handling global resources, Choosing a software control strategy		
32	24/11/2020	11 am to 12 pm	Handling boundary conditions, Setting trade-off priorities, Architecture of the ATM system.		
33	25/11/2020	2:30 to 3:30 pm	Unit-6 Overview of class design, Realizing the use cases, Designing algorithm		
34	26/11/2020	1:30 to 2:30 pm	Recursing Downwards, Refactoring		
35	27/11/2020	11 am to 12 pm	Design Optimization, Reification of behavior		
36	2/12/2020	2:30 to 3:30 pm	Adjustment of Inheritance		
37	3/12/2020	1:30 to 2:30 pm	Organizing a class design, ATM examples		
38	4/12/2020	11 am to 12 pm	Iterative Development, Managing models, Legacy system		
39	8/12/2020	11 am to 12 pm	Revision		
40	9/12/2020	2:30 to 3:30 pm	Revision		
41	10/10/2020	1:30 to 2:30 pm	Revision		
42	11/10/2020	11 am to 12 pm	Revision		

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Execution Plan

Name of Faculty: Prof. S. P. Akarte **Subject Code: 7KS05** **Section: B**

Subject Name: WE **Semester: VII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/08/20	11:00 AM	Introduction to Web Engineering, types of Applications		
2	18/08/20	2:30 PM	Web architecture, Http, TCP IP Connection		
3	20/08/20	2:30 PM	Http working, Resources, URL and its Anatomy, Request and Response message		
4	21/08/20	12:00 Noon	Different components of Http protocol with VDO demo		
5	24/08/20	11:00 AM	TCP/IP protocol suites, IP Address, Web Page, Website, Web Server		
6	25/08/20	2:30 PM	HTML, Different Tags, Table, Form		
7	27/08/20	2:30 PM	HTML, HTTP, TCP/IP transaction with web server		
8	29/08/20	12:00 PM	Development of Web Page with example		
9	31/08/20	11:00 AM	Planning of web page, Model and Structure of web site, Designing web pages		
10	03/09/20	2:30 PM	CSS & HTML difference, CSS uses		
11	04/09/20	12:00 PM	CSS syntax, CSS types, examples		
12	07/09/20	11:00 AM	CSS Selector, Class & ID with examples		
13	08/09/20	2:30 PM	Background Properties of CSS with examples		
14	10/09/20	2:30 PM	Margin, Text properties with examples		
15	11/09/20	11:00 AM	Font Properties with examples		
16	14/09/20	11:00 AM	CSS and page layout, Selectors, Grouping, Type Selectors.		
17	15/09/20	2:30 PM	HTML and CSS web page development		
18	18/09/20	12:00 PM	Unit- III---XML, Common Usage, Role of XML		
19	21/09/20	11:00 AM	Types of XML Documents		
20	22/09/20	11:00 PM	Building blocks of XML , Element declaration		
21	23/09/20	12:00 PM	Nesting of elements with child element declaration, Occurrence Indicators with examples		
22	25/09/20	12:00 PM	Attribute declaration and types of attributes with different values to attributes of elements, Entity declaration and usages in XML		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
23	28/09/20	12:00 PM	Xml DTD Examples, and XML Schema		
24	29/09/20	2:30 PM	XML Schema structure and its declaration		
25	01/10/20	2:30 PM	XML Schema restrictions on contents		
26	05/10/20	11:00 PM	XML Schema restrictions on contents (Contd)		
27	06/10/20	2:30 PM	XML Schema restrictions on contents (Contd)v		
28	08/10/20	2:30 PM	Unit IV: W3C XML Schema: Introduction		
29	09/10/20	12:00 noon	limitation of DTD		
30	12/10/20	2:30 PM	strengths of schema		
31	13/10/20	2:30 PM	schema structure		
32	15/10/20	2:30 PM	schema element		
33	16/10/20	12:00 noon	element declaration		
34	19/10/20	11:00 AM	element declaration (contd)		
35	20/10/20	2:30 PM	schema validation		
36	22/10/20	2:30 PM	schema validation (contd)		
37	23/10/20	12:00 noon	Built in data types		
38	3/11/20	2:30 PM	Built in data types (contd)		
39	4/11/20	12:00 noon	declaring simple elements		
40	5/11/20	2:30 PM	declaring simple elements (contd)		
41	6/11/20	12:00 noon	Unit V: Java Script: Introduction		
42	23/11/20	12:00 noon	variables		
43	24/11/20	2:30 PM	literals		
44	26/11/20	11:00 AM	Variables, Literals, Operator		
45	27/11/20	12:00 noon	Control Structure		
46	3/12/20	2:30 PM	Conditional Statements		

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DSP (C)Execution Plan

Name of Faculty: Prof. Ms. S. G. Pundkar **Subject Code: 7KS01** **Section: C**

Subject Name: DSP **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/20	11AM	**Unit 1:** Syllabus Discussion		
2	18/8/20	12 Noon	Introduction , Signal, Application and Future Scope of DSP		
3	20/8/20	11AM	Numericals on Sampling Theorem,Nyquist Rate and A to D		
4	21/8/20	1:30PM	Numericals on Sampling Theorem		
5	24/8/20	11AM	Numericals on Sampling Theorem		
6	25/8/20	12 Noon	Numericals on Sampling Theorem and Signal Representation		
7	27/8/20	11AM	Numericals on Sampling Theorem & Standard Discrete Time Signal		
8	28/8/20	11AM	Operation on Discrete Time Signal : 1. Time Shifting 2. Folding		
9	31/8/20	11AM	Operation on Discrete Time Signal : Folding-Shifting,Addition,Subtraction , Multiplication and Scalar Multiplication		
10	3/9/20	11 AM	Numericals on Standard and Operation of Discrete Time Signal		
11	4/9/20	1:30PM	Numericals on Standard and Operation of Discrete Time Signal		
12	7/9/20	11AM	Discrete Time System : 1. Static & Dynamic System 2. Time Variant & Invariant System		
13	8/9/20	12 Noon	**(2 Lectures)** Discrete time System : 3. Linear & Non-Linear 4.Causal & Non-Causal 5. Stable & unstable		
14	8/9/20				
15	10/9/20	11 AM	Numericals on Discrete time System and operation		
16	11/9/20	1:30PM	Numericals on Discrete time System and operation		
17	14/9/20	11AM	**Unit:2** Introduction and Cross Correlation		
18	15/9/20	12 Noon	Numericals on Cross and auto Correlation		
19	18/9/20	1:30PM	Numericals on Autocorrelation		
20	21/9/20	11AM	Autocorrelation, Convolution and its prob.		
21	22/9/20	12Noon	Convolution and its prob.		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
22	24/9/20	11AM	Different types of Convolution Problems and Properties		
23	25/9/20	11AM	Different types of Problems of Properties		
24	28/9/20	11AM	Properties of Convolution		
25	29/9/20	12Noom	Difference Equation and its Problem		
26	1/10/20	11AM	Difference Equation and its Problem		
27	5/10/20	11AM	Difference Equation and its Problem		
28	6/10/20	12Noon	Difference Equation and its Problem		
29	3/11/20	12Noon	**Unit 3: Introduction to Z-Transfer**		
30	5/11/20	11AM	Case 1 and 2 of Z-T		
31	6/11/20	11AM	**(2 Lectures)**Case 3,4 and 5 of Z-T		
32		2:30 PM	Properties of Z-T		
33	23/11/20	11AM	**(2 Lectures)** Inverse Z-Transform (Power Series Method Case 1 n 2)		
34		1:30PM			
35	24/11/20	12Noon	Inverse Z-Transform (Partial Fraction Method)		
36	27/11/20	11AM	Inverse Z-Transform (Residue Method)		
37	2/12/20	12Noon	**Unit 4 : DTFT Introduction**		
38	3/12/20	11AM	Problems on DTFT and Magnitude and phase Response		
39	7/12/20	11AM	Convolution Theorem and DFT		
40	8/12/20	11AM TO 1 PM	**(2 Lectures)** Problems of DFT, Matrix Method of DFT and IDFT		
41					
42	10/12/20	11AM	Problems of DIT-FFT		
43	14/12/20	11AM	Problems of DIF-FFT		
44	15/12/20	11AM	**(2 Lectures) Unit:6** IIR Filters		
45					

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Execution Plan CN(C)

Name of Faculty: Prof. P. S. Deshmukh **Subject Code: 7KS02** **Section: C**

Subject Name: CN **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	2:30-3:30	**Unit 1-** Overview of Syllabus. History of internet		
2	20/8/2020	2:30-3:30	Overview of Networks, Protocols, ISP, Network Edge		
3	21/8/2020	11:00-12:00	Internet nuts and bolts view, Network Edge, Hosts, Access Net, Physical Media		
4	24/08/2020	2:30-3:30	Layered architecture, Internet protocol stack, OSI and TCP/IP model		
5	27/08/2020	12:00-1:00	Network entities & all internet layers,		
6	28/08/2020	11:00-12:00	Application layer and its functioning, Principles of protocols,		
7	31/08/2020	2:30-3:30	Protocols on Application layer and its functioning, HTTP and browser functioning		
8	02/09/2020	1:30-2:30	Modes of HTTP protocol, HTTP message format, FTP protocol		
9	03/09/2020	12:00-1:00	FTP protocol, SMTP protocols, email system functioning, bob and alice email scenario		
10	04/09/2020	11:00-12:00	DNS protocol, DNS working, iterative and recursive queries in DNS		
11	07/09/2020	2:30-3:30	DNS query format, DNS caching, proxy servers		
12	09/09/2020	1:30-2:30	Unit 2- Transport layer and its services, protocols on transport layer		
13	10/09/2020	12:00-1:00	services & principles of transport layer, TCP		
14	11/09/2020	11:00-12:00	multiplexing & demultiplexing applications,		
15	14/09/2020	2:30-3:30	connection less and connection oriented multiplexing		
16	16/09/2020	1:30-2:30	UDP protocol details and its functioning, principles of reliable data transfer		
17	18/09/2020	11:00-12:00	reliable data transfer protocols, FSM model,		
18	21/09/20	2:30-3:30	rdt 2.0 channel with bit errors, FSM specification, operation with no errors, flaws		
19	23/09/20	12:00-1:00	rdt2.1, handling of garbled ACK/NAKs, rdt 2.2 NAK-free protocol, sender, receiver fragments		
20	24/09/20	2:30-3:30	rdt3.0, rdt3.0 in action, Performance of rdt3.0, stop and wait operation		
21	25/09/20	11:00-12:00	Pipelined protocols, increased utilization equation		
22	28/09/20	2:30-3:30	Go-Back-N, GBN: sender extended FSM, receiver extended FSM, Selective Repeat		
23	30/09/20	12:00-1:00	Selective repeat: sender, receiver windows		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
24	01/10/20	2:30-3:30	TCP: Overview, TCP segment structure, Example RTT, TCP Connection Management		
25	05/10/20	2:30-3:30	Congestion Control, Causes/costs and approaches towards congestion		
26	12/10/20	2:30-3:30	**Unit 3:** Overview on NW layer, functions, Network service model, Virtual circuits		
27	14/10/20	12030-1:00	Virtual circuits, Datagram networks, CBR, ABR, MCR, PCR, Network layer service models		
28	15/10/20	11:00-12:00	routing protocol, routing algorithms, classification, Global/ Decentralized / Link State routing algorithm		
29	19/10/20	2:30-3:30	Global/ Decentralized / Link State routing algorithm, Dijsktra's Algorithm,		
30	04/11/20	12:00-1:00	Distance Vector Routing Algorithm, Comparison of LS and DV algorithms, Hierarchical Routing, Intra-AS and Inter-AS routing,		
31	05/11/20	2:30-3:30	The Internet Network layer, IP Addressing, IP datagram format, IP Fragmentation & Reassembly, NAT, ICMP		
32	06/11/20	11:00-12:00	inside router, router internals, switching fabrics, DHCP, IPV6		
33	23/11/20	12:15-1:00	**Unit 5** Network Security, language of cryptography, Symmetric key crypto, DES		
34	26/11/20	2:35-3:30	DES, AES, Public Key Cryptography, encryption algorithms, RSA algorithm		
35	27/11/20	1:35-2:30	RSA algorithm, Digital Signatures, Message Digests,		
36	03/12/20	2:35-3:30	Internet checksum, Hash Function Algorithms MD5 , Key Distribution Center (KDC), CA		
37	04/12/20	11:00-12:00	Diff between KDC & CA, Firewall types, details, limitations, Secure-Email, PGP, SSL		
38	07/12/20	2:30-3:30	**Unit 6:** Network Management, scenarios & Infrastructure for NW		
39	09/12/20	1:30-2:30	NW management standards, OSI CMIP, SNMP, 4 Key parts of SNMP,		
40	11/12/20	11:30-12:00	MIB, SMI: data definition language, SNMP MIB, SNMP protocol, message types,		
41	14/12/20	1:40-2:30	SNMP message format, SNMP security, ASN.1, TLV encoding		

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Execution Plan

Name of Faculty: Dr. V. M. Deshmukh **Subject Code: 7KS03** **Section: C**

Subject Name: Design And Analysis of Algorithms **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	17/8/2020	12pm -1 pm	Algorithmics Design of algorithms-Introduction, Problem Solving		
2	18/8/2020	1.30-2.30 pm	The Study of Algorithms ,Importance of Analysing Algorithms		
3	20/8/2020	12pm- 1pm	General Plan for Analysis, Why study algorithms and performance		
45	24/8/2020	12pm-1pm	iterative Algorithm design issues		
6	25/8/2020	1.30-2.30pm	Analysing control structures, Use of for loops		
7	27/8/2020	12pm-1pm	Efficiency of algorithms		
8	31/8/2020	12pm-1pm	Asymptotic Notations Big O, Omega and Theta notations		
9	2//9/2020	1.30-2.30pm	Conditional Asymptotic Notations and Properties of asymptotic notations		
10	3/9/2020	12pm -1pm	Design Using Recursion		
11	7/9/2020	12pm-1pm	Divide and Conquer Technique		
12	9/9/2020	1.30-2.30pm	Matrix Multiplication, Strassen ‘s matrix multiplication method and its Time Complexity		
13	10/9/2020	12pm -1pm	MergeSort Algorithm and its Time Complexity		
14	14/9/2020	12pm- 1pm	Greedy Algorithm : Making Change		
15	15/9/2020	1.30-2.30pm	Knapsack Problem : Container Loading		
16	21/9/2020	12pm - 1pm	Additional Problems Knapsack Algorithm		
17	22/9/2020	1.30-2.30pm	Job Scheduling with and without Deadlines		
18	23/9/2020	1.30-2.30pm	Problems on Job Scheduling		
19	24/9/2020	12pm- 1pm	KPS Problems		
20	28/9/2020	12pm-1pm	Construction of MST : Kruskal’s Algorithm		
21	29/9/2020	1.30-2.30pm	Construction of MST : Prim’s Algorithm		
22	30/9/2020	1.30-2.30pm	Additional practice problems		
23	1/10/2020	12pm-1pm	Additional practice problems		

24	5/10/2020	12pm-1pm	Dijkstras Algorithm		
25	6/10/2020	1.30pm-2.30pm	Dynamic programing		
26	12/10/2020	12pm-1pm	Multistage graph problems		
Sr. No	**Date**	**Time**	**Topics Covered**	**Sign. of Faculty**	**Sign. of HOD**
27	14/10/2020	1.30pm-2.30pm	Matrix multiplication		
28	**15/10/2020**	**12pm-1pm**	**Longest common subsequence**		
29	3/11/2020	1.30pm-2.30pm	Floyds Algorithm		
30	4/11/2020	1.30pm-2.30pm	Traveling Salesperson problem		
31	5/11/2020	12pm-1pm	Traveling Salesperson problem		
32	23/11/2020	12pm-1pm	Closest pair between points		
33	24/11/2020	1.30pm-2.30pm	Triangulation and Convex hull		
34	25/11/2020	1.30pm-2.30pm	Backtracking Strategy		
35	26/11/2020	12pm-1pm	Search and traversal techniques		
36	2/12/2020	1.30pm-2.30pm	DFS and BFS techniques		
37	3/12/2020	12pm-1pm	Queens problem		
38	7/12/2020	12pm-1pm	Graph Coloring problem		
39	8/12/2020	1.30pm-2.30pm	Hamiltonian Circuit		
40	9/12/2020	1.30pm-2.30pm	Polynomial Time and Nonpolynomial time algorithms		
41	10/12/2020	12pm-1pm	Efficiency of Recursion		
42	14/12/2020	12pm-1pm	Examples of Complexity Time space tradeoff		

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Computer Science & Engineering
(Odd Semester 2019-2020)

Execution Plan

Name of Faculty: Prof. Ms. V. S. Sakharkar Subject Code: 7KS04 Section: C

Subject Name: OOAD Semester: VIII Year: Final Year

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1.	17/08/2020	1.30pm	Unit I :Introduction to OOAD,Basic concepts of Object oriented analysis.		
2.	18/08/2020	2.30pm	Modeling Concept , Object orientation.		
3.	21/08/2020	2.30pm	Object Oriented themes, OO Development		
4.	24/08/2020	1.30pm	Modeling as a design technique,Class Modeling		
5.	25/08/2020	2.30pm	Abstraction, The three models, Object and class concepts		
6.	28/08/2020	2.30pm	Link and association concepts, Generalization & Inheritance		
7.	01/09/2020	2.30pm	Navigation of class models		
8.	02/09/2020	11am	Unit II:Advanced object and class concepts		
9.	04/09/2020	2.30pm	Association Ends, N-array association, Aggregation		
10	07/09/2020	1.30pm	Abstract classes, Multiple inheritance		
11	08/09/2020	2.30pm	Metadata, Reification,Constraints, Derived data, Packages		
12	09/09/2020	11am	State Modeling: Events, States		
13	11/09/2020	2.30pm	Transitions and Conditions		
14	14/09/2020	1.30pm	State diagrams, State diagram behavior.		
15	15/09/2020	2.30pm	Unit III :Nested state diagram, Signal Generalization		
16	16/09/2020	11am	Nested states, Concurrency,Relation of class and state models		
17	18/09/2020	2.30pm	Use case model		
18	21/09/2020	1.30pm	Sequence models		
19	22/09/2020	2.30pm	Activity models, Use case relationships		
20	23/09/2020	11am	Procedural sequence model		
21	25/09/2020	2.30pm	Special constructs for activity models		
22	28/09/2020	1.30pm	Unit IV : Development stages		
23	29/09/2020	2.30pm	Development life cycle,Devising a system concepts		
24	30/09/2020	11am	Elaborating a concepts, Preparing a problem statements		
25	05/10/2020	1.30pm	Overview of analysis, Domain class models,		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	06/10/2020	2.30pm	Domain state model, Domain Interaction model		
27	12/10/2020	1.30pm	Unit V : Application Analysis. Overview of System Design		
28	13/10/2020	2.30pm	Estimating Performance, Making a reuse plan		
29	16/10/2020	2.30pm	Breaking a system into subsystems, Identifying Concurrency		
30	03/11/2020	2.30pm	Allocation of subsyst c c ems, Management of data storage		
31	04/11/2020	11am	Handling global resources, Choosing a software control strategy		
32	06/11/2020	2.30pm	Handling boundary conditions, Setting trade-off priorities, Architecture of the ATM system.		
33	24/11/2020	1.30pm	Unit VI : Overview of class design, Realizing the use cases,		
34	25/11/2020	2.30pm	Recursing Downwards, Refactoring		
35	26/11/2020	11am	Design Optimization, Reification of behavior		
36	26/11/2020	12 pm	Designing algorithm		
37	27/11/2020	2.30pm	Adjustment of Inheritance		
38	02/12/2020	11am	Organizing a class design, ATM examples		
39	04/12/2020	2.30pm	Iterative Development, Managing models,		
40	07/12/2020	1.30pm	Domain state model,Domain Interaction model, Legacy system		
41	08/12/2020	2.30pm	Revision of UNIT I		
42	09/12/2020	11am	Revision of UNIT II		
43	11/12/2020	2.30pm	Revision of UNIT III		

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(Odd Semester 2019-2020)

WE Execution Plan

Name of Faculty: Prof. A. U. Chaudhari **Subject Code: 7KS05** **Section: C**

Subject Name: WE **Semester: VIII** **Year: Final Year**

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
1	18/08/2020	11.00 to 12.00	Introduction To Html		
2	20/08/2020	1.30 to 2.30	HTML, Tags, Advance Tags like Image Map		
3	21/08/2020	12.00 to 1.00pm	Introduction to Multimedia, Table and List		
4	25/08/2020	11.00 to 12.00	Brief with Table and css with inline css and internal css		
5	27/08/2020	1.30 to 2.30	Introduction to CSS		
6	02/09/2020	2.30 to 3.30	Border Properties, Text Properties		
7	03/09/2020	1.30 to 3.30	Text Properties, Margin properties, Actual representation of CSS with HTML		
8	04/09/2020	12.00 to 1.00	Text Decoration properties, Introduction XML		
9	08/09/2020	11.00 to 12.00	Introduction XML		
10	09/09/2020	2.30. to 3.30	XML Naming rules, XML Validation		
11	10/09/20 (Thurs)	1.30 to 2.30	Introduction to DTD		
12	11/09/20(Friday)	12.00 TO 1.00	Declaration of ELEMENT and ATTRIBUTE, Usage of Element and Attribute		
13	15/09/20	11.00 to 12.00	XML Namespace, XML Parser		
14	16/09/20	2.30 to 3.30	Introduction to XML Schema		
15	17/09/2020	1.30 to 2.30	Introduction to the Data types and schema Element		
16	18/09/2020	12.00 to 1.00	Introduction to the Simple and Complex Element		
17	22/09/2020	11.00 to 12.00	Order Indicator, Occurrence indicator, Group Indicator		
18	23/09/2020	11.00 to 12.00	Mixed Element, Extensions, Extension with attribute, co occurrence constraints		
19	24/09/2020	1.30 to 2.30	Introduction to Java Script		
20	25/09/2020	12.00 to 1.00	First Java Script program		
21	29/09/2020	11.00 to 12.00	Variables, typeof Operator, Literals		
22	30/09/2002	2.30 to 3.30	Operators, Conditional statement, Control Statement		
23	01/10/2020	1.30 to 2.30	Array, Methods of array		
24	06/10/2020	1.30 to 2.30	Introduction to functions of Java script		
25	13/10/2020	1.30 to 2.30	Introduction to Java script Objects		

Sr. No	Date	Time	Topics Covered	Sign. of Faculty	Sign. of HOD
26	14/10/2020	2.30 to 3.30	Function as a object, Function as Data, Quick Test		
27	15/10/2020	1.30 to 2.30	Practical Implementation of JavaScript with HTML		
28	16/10/2020	2:30 PM	**UNIT:4-W3c XML Schema: Introduction,**		
29	03/11/2020	12:00 PM	Limitation of DTD, Strength of Schema		
30	04/11/2020	2:30 PM	Schema Structure		
31	06/11/2020	2:30 PM	Element Declaration		
32	24/11/2020	12:00 PM	Schema Validation		
33	25/11/2020	2:30 PM	Built in Data type		
34	26/11/2020	2:30 PM	Declaring simple Elements		
35	26/11/2020	12:00 PM	**UNIT:5-Java Script: Introduction**		
36	27/11/2020	2:30 PM	Variables, Literals, Operator		
37	02/12/2020	2:30 PM	Control Structure		
38	04/12/2020	12:00 PM	Conditional Statements		
39	07/12/2020	2:30 PM	Array, Function		
40	08/12/2020	2:30 PM	Parameter Passing, Function pointer		
41	09/12/2020	12:00 PM	Inner/Nested Functions, objects		
42	11/12/2020	2:30 PM	**UNIT:6-Common Gateway Interface (CGI): Internet programming paradigm,Server programming,**		
43	16/10/2020	12:00 PM	Language for CGI,Application, Server Environment,		
44	03/11/2020	1:30 PM	Environment Variable, Enhancement in CGI,CGI Building Blocks, CGI Scripting using C,		
45	04/11/2020	12:00 PM	Shell Script, Writing CGI Program,CGI Security, Alternative and Enhancement in CGI		

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Execution Plan

(2020-2021) Summer-2021.

Subject :- Operating System (4ITO3) **Sem:-** 4th

Name Of Subject Teacher :- Prof. Umesh V. Nikam **Section :-** A ~~B~~

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	01/02/21	Introduction : Os definination, evolution.		
2	02/02/21	Os components		
3	03/02/21	process concept		
4	05/02/21	process scheduling		
5	06/02/21	Operations on process		
6	08/02/21	co-operating processes		
7	09/02/21	Interprocess communication		
8	10/02/21	Thread overview		
9	12/02/21	Multitasking models		
10	13/02/21	Thread issues.		
11	15/02/21	Java Threads.		
12	16/02/21	UNIT-02 : CPU scheduling concepts		
13	17/02/21	scheduling criteria & algorithm		
14	20/02/21	scheduling criteria & algorithm		
15	22/02/21	scheduling criteria & algorithm		
16	23/02/21	scheduling criteria & algorithm		
17	24/02/21	process synchronization		
18	26/02/21	critical section problem		
19	27/02/21	synchronization hardware		
20	01/03/21	semaphores, monitors		
21	02/03/21	Deadlocks : Defination & characterization		
22	03/03/21	Deadlocks prevention		
23	05/03/21	Avoidance		
24	06/03/21	Detection & Recovery from deadlock		
25	08/07/21	UNIT 03 : Memory management & background		
26	09/03/21	Swapping		
27	10/03/21	Contigeous memory allocation scheme		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	12/03/21	paging		
29	13/03/21	segmentation		
30	17/03/21	virtual memory management.		
31	15/03/21	demand pagings scheme		
32	16/03/21	process creation		
33	17/03/21	page replacement policies		
34	19/03/21	Allocation of frames.		
35	20/03/21	Thrashing.		
36	22/03/21	UNIT 04: File system interface		
37	23/03/21	Directory structure		
38	24/03/21	File system mounting		
39	26/03/21	File sharing & protection		
40	27/03/21	File system structure.		
41	30/03/21	File system implementation.		
42	31/03/21	Directory implementation		
43	03/04/21	Allocation method		
44	05/04/21	free space management.		
45	06/04/21	File recovery.		
46	07/04/21	UNIT 05: I/O system overview		
47	09/04/21	I/O hardware		
48	10/04/21	Application I/O interface		
49	12/04/21	Kernel I/O subsystem		
50	14/04/21	Transforming I/O to H/W operation		
51	17/04/21	Disk scheduling disk management.		
52	19/04/21	swap spaceme management.		
53	20/04/21	RAID structure.		
54	23/04/21	UNIT 06: Linux system history.		
55	24/04/21	Design principles kernel modules		
56	30/04/21	process management, scheduling, memory mgmt		
57	03/05/21	File system, input & output.		
58	04/05/21	Inter process communication.		
59.	05/05/21	Network structure		
60.	07/05/21	Security in Linux		

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Prof Ram Meghe Institute of Technology & Research, Badnera- Amravati
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Execution Plan
(2020-2021) S-21

Subject :- POM
Sem:- VI
Name Of Subject Teacher :- H.D.Kale
Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18/1/21	Introduction : Defination &		
		Concept of management		
2	19/1/21	Importance of management		
3	20/1/21	Various management function		
4	22/1/21	Control, responsibilities		
5	23/1/21	Human resource planning		
6	25/1/21	Decision - making		
7	5/2/21	Trade union		
8	6/2/21	Collective bargaining		
9	12/2/21	Organizational planning		
10	15/2/21	Design & development		
		Introduction		
11	16/2/21	Design & development		
12	17/2/21	Production resources		
13	26/2/21	Production planning		
14	27/2/21	Types of production system		
15	1/3/21	Production system		
16	2/3/21	Production control		
17	4/3/21	Production design &		
	8/3/21	development - Intro		
18	5/3/21	Production design &		
		development		
19	8/3/21	Design of product		
20	9/3/21	Design of product & types		
21	10/3/21	New product development		
22	12/3/21	New product development		
		types		

Unit I
Unit II
Unit III

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
23	13/3/21	Material planning & control			Unit III
24	12/3/21	Material planning control (contd)			
25	30/3/21	Maintenance & system reliability			Unit IV
26	4/5/21	Concepts & objectives of maintenance			
21	5/5/21	Failure analysis			
22	7/5/21	Reliability maintenance			
23	8/5/21	classifications			
24	10/5/21	Maintenance planning			
25	11/5/21	TQM ISO 9000			
26	12/5/21	Quality Audit			
27	15/5/21	Marketing Management			Unit V
28	17/5/21	Consumer behaviour			
29	18/5/21	Product management			
30	21/5/21	Pricing & promotion decision			
31	24/5/21	Financial planning			
32	25/5/21	Source of finance			
33	28/5/21	Source of finance & types			
34	29/5/21	Project management			
35	31/5/21	Concept & importance of project			Unit VI
36	1/6/21	Project implementation			
37	2/6/21	MIS meaning & objectives			
38	3/6/21	Types of data, methods of data collection			
39	7/6/21	Analysis & presentation of data			
40	8/6/21	Editing, reporting & presentation of data			
41	9/6/21	Decision options			

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Execution Plan
(2020-2021) S-21

Subject :- Software Engineering (~~Office~~ IT03) **Sem:-** VIII

Name Of Subject Teacher :- Prof. R.M. Hushangabade **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1.	18/01/21	~~mi~~ mission vision & PEO's, PO's &		
		introduction to web essentials		
2.	19/01/21	Evolving role of software		
3.	20/01/21	software crises & myths		
4.	22/01/21	software process & process models		
		linear sequential model		
5.	23/01/21	prototyping model, RAD model		
6.	25/01/21	~~Evolving~~ Evolutionary product & process		
7.	27/01/21	project management concepts:		
		people, product, process, project		
8.	05/02/21	W5HH principle		
9.	06/02/21	critical practice		
10.	12/02/21	Measures, metrics & indicators		
11.	15/02/21	Metrics in process & project		
		domains		
12.	16/02/21	software measures & metrics for		
		quality		
13.	17/02/21	software project planning		
14.	24/02/21	software scope, resources &		
		estimation		
15.	26/02/21	decomposition techniques & tools		
16.	27/02/21	software risk identification,		
		projection & refinement		
17.	01/03/21	RMMM plan		
18.	04/03/21	Project scheduling		
19.	06/03/21	project concepts, efforts, tasks &		
		& networks		

unit-I

unit-II

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
20.	05/03/24	Project scheduling & plan		
21.	06/03/24	software quality concepts		
22.	08/03/24	software quality assurance, reviews & technical review.		
23.	09/03/24	software reliability, SQA plan		
24.	10/03/24	SCM process & version control		
25.	12/03/24	SCM standard.		
26.	13/03/24	System Engineering Hirarchy		
27.	12/04/24	Bussiness process & product engineering		
28.	30/04/24	Requirment engineering & system modelling		
29.	03/05/24	Requirment analysis & analysis principles.		
30.	04/05/24	software prototyping specification		
31.	05/05/24	software design process		
32.	07/05/24	Design principles & concepts		
33.	08/05/24	Effective modular design.		
34.	10/05/24	Design model & documentation		
35.	11/05/24	software architecture intro.		
36.	12/05/24	Architecture styles & regn mapping		
37.	15/05/24	Transform & transition mapping.		
38.	17/05/24	User interface design, golden rule, UID		
39.	18/05/24	task analysis & modelling		
40.	21/05/24	Tools design evaluation		
41.	22/05/24	component level design		
42.	24/05/24	structure programming		
43.	25/05/24	comparision of design notation		
44.	28/05/24	Software testing fundamentals test case design, white box testing		
	29/05/24	Basic path control structure black box testing		

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Execution Plan

(2020-2021)

Subject :- Software Engineering (STT 603) Sem:- VIII

Name Of Subject Teacher :- Prof R.M. Hudlanyabade Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
45.	31/05/21	control structures, black box testing for specialized environment		
46.	01/06/21	Strategic approach to software testing.		
47	02/06/21	Unit testing & integration testing		
48.	03/06/21	Validation & system testing		
49.	04/06/21	Debugging & technical matrix for software testing		

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Execution Plan

(2020-2021) S-21

Subject :- POM **Sem:-** VI

Name Of Subject Teacher :- H. D. Kale **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18/1/21	Introduction : Defination & concept of management	HK	
2	19/1/21	Importance of management	HK	
3	20/1/21	Various mangement functions	HK	
4	22/1/21	Control, responsibilities	HK	
5	23/1/21	Human resource planning	HK	
6	25/1/21	Decision-making	HK	
7	27/1/21	Trade unions	HK	
8	5/2/21	Collective Bargaining	HK	
9	6/2/21	Organization planning	HK	
10	12/2/21	Design & Developement - Intro	HK	
11	15/2/21	Design & Developement	HK	
12	16/2/21	Production resources	HK	
13	17/2/21	Production planning	HK	
14	24/2/21	Types of production system	HK	
15	26/2/21	Production systems	HK	
16	27/2/21	Production control	HK	
17	1/3/21	Production design & developemet - Introduction	HK	
18	2/3/21	Production design & developemet	HK	
19	4/3/21	Design of the product	HK	
20	5/3/21	Design of the product & types	HK	
21	6/3/21	New product dueleopement	HK	
22	8/3/21	New product dueleopement types.	HK	
23	9/3/21	Material planning & control	HK	
24	10/3/21	Material planig control (conti)	HK	

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
25	12/3/21	Maintenance & system reliability		
26	13/3/21	Concepts & Objectives of maintenance		
27	12/4/21	Failure analysis		
28	30/4/21	Reliability Maintenance		
29	3/5/21	Reliability Maintenance system & classification		
30	4/5/21	Maintenance planning		
31	5/5/21	TQM ISO 9000		
32	7/5/21	Quality Audit		
33	8/5/21	Marketing management - Intro		
34	10/5/21	Marketing management (conti)		
35	11/5/21	Consumer behaviour		
36	12/5/21	Product management		
37	15/5/21	Pricing & promotion decision		
38	17/5/21	Financial planning		
39	18/8/21	Source of finance		
40	21/5/21	Source of finance & types		
41	22/5/21	Project Management		
42	24/5/21	Concepts & importance of project		
43	25/5/21	Project implementation		
44	28/5/21	MIS meaning & objectives		
45	29/5/21	Types of data, methods of data collection		
46	31/5/21	Analysis and presentation of data		
47	1/6/21	Editing, reporting and presentation of data		
48	2/6/21	Decision options		

Unit IV

Unit V

Unit VI

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Lecture Plan S-21

Subject :- Computer Network **Sem:-**

Name Of Subject Teacher :- S.N. Sarda **Section :-** X / (B)

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
01	18/1/21	Vision mission Institute & Departmental objective of Course	S		
02	20/01/21	Introduction to C.N. Uses of H/D & S/W	S		
03	21/01/21	Reference model & Standardization	S		Unit No. 1
04	22/01/21	OSI Layer : Physical Layer	S		
05	23/01/21	Basic Concept of D.C.	S		
06	25/01/21	transmission media - guided	S		
07	27/01/21	Wireless transmission, Communication satellite P.S TN	S		
08	05/02/21	Mobile Telephone system, Cable Television	S		
09	06/2/21	Data link layer : Basic Concept	S		
10	08/2/21	Design issues of D.L.	S		
11	10/2/21	Error Detection & Correction	S		Unit No 2
12	11/2/21	Elementary Data link Protocol	S		
13	12/2/21	Sliding windows Protocol	S		
14	13/2/21	Verification of sliding windows Protocol	S		
15	26/2/21	Protocol Verification	S		
16	27/2/21	Example of DL Protocol	S		
17)	01/03/21	MAC Sublayer	S		
18	03/03/21	Static & dynamic Channel allocation	S		Unit 3
19	4/03/21	MAC Protocol, ALHOA, CSMA	S		
20	5/3/21	Collision free Protocol	S		
21	6/3/21	Ethernet	S		
22	8/3/21	Wireless LAN	S		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
23	10/3/21	Broad Band wireless, Bluethooth			Unit No 3
24	11/3/21	Data link Layer Switching			
25	12/3/21	Dat OSI Layer : Network Layer			
26	13/3/21	Design issues, Routing methods			
27	12/04/21	Shortest Path flooding Link state			Unit No 4
28	30/4/21	Distance vector Routing			
29	03/5/21	Broadcast & multicast Routing			
30	05/05/21	Congestion control algorithm			
31	06/5/21	Internet working			
32	7/5/21	Quality of Services			
33	8/5/21	N/W Layer in the Internet			
34	10/5/21	Transport Layer, Services Premitives			
35	12/5/21	UDP, RPC, RTTP			Unit No -5
36	13/5/21	TCP Services and Features			
37	14/5/21	TCP Segment format			
38	15/5/21	TCP Connections			
39	19/5/21	TCP Timers, Performance issues			
40	20/5/21	TCP Services, UDP Services			
41	21/5/21	OSI model : Application Layer			
42	22/5/21	Application Layer Services & function			
43	24/5/21	DNS			Unit No 6
44	26/5/21	Electronic mail.			
45	27/5/21	World wide web.			
46	28/5/21	multimedia. Services.			
47	29/5/21	Voice over IP, H323, videoon demand			

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Subject :- Cloud Computing **Sem:** 8th Sem

Name Of Subject Teacher :- Prof M S Bansal **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18/01/2021	Vision Mission of Institution and Department PEO, PO, PSO		
2	19/01/21	Introduction to Cloud Computing		
3	20/01/21	The SPI Framework for Cloud Computing		
4	21/01/21	Relevant Technologies in Cloud Computing		
5	22/01/21	The Cloud Service Delivery Model		
6	25/01/21	Cloud Deployment Models		
7	27/01/21	Key Drivers to Adopting the Cloud		
8	28/01/21	The impact of Cloud Computing on User		
9	29/01/21	Barriers to Cloud Computing Adoption in the Enterprise		
10	1/2/21	Unit 2:- Introduction to Infrastructure Security		
11	2/2/21	The Network level: Ensuring Data Confidentiality & Integrity		
12	3/2/21	Ensuring Proper Access Control		
13	4/2/21	The Host level: SaaS & PaaS Host Security		
14	5/2/21	IaaS Host Security		
15	8/2/21	Virtual Server Security		
16	9/2/21	The Application level		
17	10/2/21	SaaS Application Security		
18	11/2/21	PaaS Application Security		
19	12/2/21	IaaS Application Security		
20	15/2/21	Data Security & Storage: Provider Data & Security		
21	16/2/21	Unit-5: Need of IAM		
22	17/2/21	IAM Challenge & definition		
23	18/2/21	IAM Architecture & Practice		
24	22/2/21	Security Management in the Cloud		
25	23/2/21	Availability Management		
26	24/2/21	SaaS		

Sr. No.	Date	Topics to be Covered	Faculty	HOD
27.	25/2/22	Risk	✓	
28	26/2/22	Issues Availability Management	✓	
29.	04/3/22	Access Control	✓	✓
30.	02/3/22	Certificate Key Privacy Concerns includ	✓	
31.	03/3/22	Changes to Privacy	✓	
32.	04/3/22	Risk Management	✓	
33	05/3/22	Compliance in Relation to Cloud Computing	✓	
34.	12/3/22	Legal & Regulatory Implications	✓	
35	13/3/22	International Issues & Regulations	✓	✓
36.	15/3/22	Unit 5:- Internal Policy Compliance	✓	
37.	16/3/22	Governance, Risk & Compliance	✓	
38	17/3/22	Illustrative Control Objective for Cloud Computing	✓	
39.	18/3/22	Incremental CSP-Specific Control Objective	✓	
40.	19/3/22	Additional Key Management Control Objectives	✓	
41	22/3/22	Control Considerations for CSP Users.	✓	
42	23/3/22	Regulatory / External Compliance	✓	✓
43	24/3/22	Unit 6:- The impact of Cloud Computing on the Role of Corporate IT	✓	
44.	25/3/22	Why Cloud Computing will be Popular with Bussiness units	✓	
45	26/3/22	Potential Threats of Using CSPs.	✓	
46.	29/3/22	A Case Study Illustrating Potential.	✓	
	30/3/22	Changes in the IT profession caused by Cloud Computing		
47.	31/3/22	Governance factors to Consider When Using Cloud Computing	✓	✓

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Subject :- Web Commerce **Sem:-**

Name Of Subject Teacher :- Dr. A.S. Alvi **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
I	01	18.01.21	Basic Web Commerce Concepts		
	02	19.01.21	web Commerce Applications		
	03	20.01.21	Electronic Commerce Environments		
	04	21.01.21	Electronic marketplace technologies		
	05	22.01.21	EDI		
	06	25.01.21	Electronic commerce with internet		
	07	27.01.21	Approach to Safe-E-commerce		
	08	28.01.21	Secure transport protocol & transaction		
II	09	29.01.21	SEPP		
	10	01.02.21	SET		
	11	02.02.21	Certificate for authentication		
	12	03.02.21	Security on web Server & Enterprise n/w		
	13	04.2.21	Electronic Cash & Electronic Payment		
	14	05.2.21	Internet monetary payment & Security req.		
	15	08.2.21	continue		
	16	15.2.21	Payment & Purchase order Process: A.H. Req.		
III	17	16.2.21	Merchant Registration		
	18	17.2.21	Account Holder ordering		
	19	18.2.21	online Electronic Cash		
	20	24.2.21	Electronic Payment Schemes		
	21	25.2.21	Needs for computer Security.		
	22	26.2.21	Security Strategies		
	23	01.3.21	Encryption		
IV	24	02.3.21	Master / Visa Secure Electronic Transaction		
	25	03.3.21	Requirements		
	26	05.3.21	Payment Processing Concepts		
	27	08.3.21	Payment Processing : Cardholder Reg		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
29	09.3.21	Payment Processing : Merchant Reg		
29	10.3.21	PP : Purchase Request		
30	12.3.21	PP : Payment authorization & Capture		
31	12.4.21	Secure E-mail Technologies		
32	15.4.21	Means of distribution, Models of message handling		
33	16.4.21	How does E-mail works		
34	19.4.21	MIME		
35	20.4.21	S/MIME, MOSS		
36	22.4.21	MIME & Related facilities for EDI		
37	23.4.21	Internet Resources for commerce		
38	28.4.21	Web Server Technologies		
39	29.4.21	Internet tools Relevant to commerce		
40	30.4.21	Internet applications for commerce		
41	03.5.21	Internet access & architecture		
42	04.5.21	Internet Searching		
43	05.5.21	Internet Searching cont...		
44	06.5.21	Revision of unit I		
45	11.5.21	Revision of unit - II		
46	12.5.21	Revision of unit - III		

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Subject :- NAS **Sem:-** VIII

Name Of Subject Teacher :- P.V Dudhe **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	1	18/01/21	Mission, Vission, Syllabus, CLO of subject		
	2	19/01/21	Introduction to Network security		
	3	20/01	Passive & active attacks		
	4	21/01	Access control, internal standard		
	5	22/01	Internet security model		
I	6	25/01	Security triad, authentication		
	7	27/01	Confidentiality, security Services		
	8	28/01	Security Mechanism		
	9	29/01	Cryptography : Encryption Principle		
←	10	01/02	Symmeteric Encryption & algorithms		
	11	2/02	Data Encryption Standard Algorithms		
	12	3/02	3 DES, Advantages, disadvantages		
	13	4/02	Block cipher, AES		
	14	5/02	AES Algorithms usefullness & limitations		
II	15	8/02	Public key cryptography		
	16	9/02	Message Authentication, MAC		
	17	10/2	Digital Signature (MD5)		
	18	10/2	SHA-1, SHA-512 Algorithms		
	19	11/2	Introduction to N/w security Applications		
←	20	12/2	Kerberos.		
	21	15/02	Kerberos usefullness & limitations.		
	22	17/02	X.509 directory authentication services		
III	23	18/02	E-mail security		
	24	22/02	MIME, advantage, concepts.		
	25	23/02	MIME, limitations, concepts		
	26	24/02	PGP Concept & operationdescription		
	27	25/02	SMIME (secure MIME)		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	28	26/02	SMIME Functionality & usefulness		
	29	01/03	IP security concept & overviews		
	30	02/03	IP sec architecture		
	31	03/03	web security, concept & requirement		
IV	32	04/03	SSL, Secure Socket layer		
	33	05/03	Transport layer security		
	34	08/03	Secure Electronic transaction		
	35	09/03	SET, TES, Authoentication heade		
	36	10/03	Authentication header requirement		
←	37	12/03	Introduction to N/w security Mangement		
	38	15/03	Basic concept of SNMP		
	39	16/3	NIW Management architecture		
	40	19/4	SNMP Protocol		
	41	20/4	SNMP Proxies, services		
V	42	22/4	SNMPV, authentication Service		
	43	23/4	Access Policy & Proxies services		
	44	26/4	SNMPV2 Protocol architecture		
	45	29/4	SNMP version 1 & 2 differences		
←	46	30/4	System Security concepts, Intruders		
	47	3/5	Intrusion technologys		
	48	4/05	Introduction to Password Protocol		
	49	6/05	Password selection strategies		
	50	10/05	Intro to related threats, Viruses		
VI	51	11/05	Nature of Viruses, typps of Viruses		
	52	12/05	Viruses & anti-Viruses approach		
	53	17/05	Micro Viruses, Firewall concepts.		
	54	18/05	types of Firewalls & Configuration		
	55	19/05	Intrusion detection, trusted system		
	56	20/05	Data access control concepts		
	57	21/05	usefullness of data access controls		
	58	24/05	Revision of all unit MCQs		

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Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	9/3/21	Intersection of CFL & PDA.		
29	10/3/21	Enumeration properties of CFL.		
30	12/3/21	Unit IV - Turing machine intro.		
31	12/4/21	Definition, model of TM & its design		
32	15/4/21	Design of Turing machine.		
33	29/4/21	TM - computable functions.		
34	30/4/21	TM - computable functions.		
35	3/5/21	Recursive Enumerable languages.		
36	4/5/21	Church's hypothesis		
37	5/5/21	types of Turing machine		
38	7/5/21	Unit V - Chomsky hierarchy of lang.		
39	11/5/21	linear bounded automata.		
40	12/5/21	Context sensitive language.		
41	17/5/21	Introduction to DCFL & DPDA.		
42	18/5/21	LR(0) grammas.		
43	19/5/21	Grammas, decidability of problems		
44	20/5/21	Unit VI - properties of Recursive lang.		
45	21/5/21	properties of Non-recursively ens. lang.		
46	24/5/21	Universal turing machine.		
47	25/5/21	Post correspondence problem.		
48	27/5/21	Introduction to recursive function theory		
49	28/5/21	Ackermann's function.		
50	31/5/21	Revision of Unit- I		
51	1/6/21	Revision of Unit II		
52	2/6/21	Revision of Unit- III		
53	3/6/21	Revision of Unit- IV		
54	4/6/21	Revision of Unit- V & VI.		
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Subject :- DBMS Sem:- VI th

Name Of Subject Teacher :- S. A. Chorey Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18-01-21	Database System Application		
2	19/1/21	view of data		
3	20/1/21	Database Users and Administrator		
4	21/1/21	Database system Structure		
5	22/1/21	Application Architecture		
6	25/1/21	E-R Model		
7	26/1/21	Basic concept, constraint key		
8	27/1/21	Design issue		
9	28/1/21	Weak entity set		
10	29/1/21	Extended E-R feature		
11	1/2/21	Reduction of E-R Schema		
12	2/2/21	Relational Model		
13	3/2/21	Relational Algebra		
14	4/2/21	Modification of Database		
15	5/2/21	views, the Tuple Relational Calculus		
16	8/2/21	SQL - Basic Structure		
17	9/2/21	Set operation, Aggregate function		
18	10/2/21	NULL Values, Nested Sub queries		
19	11/2/21	Integrity & Security		
20	12/2/21	Domain Constraints		
21	15/2/21	Referential Integrity, Assertion		
22	16/2/21	Triggers		
23	17/2/21	Security and Authorization		
24	18/2/21	Encryption and Data Authorization		
25	19/2/21	Normalization		
26	22/2/21	Pitfalls, functional dependencies		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
27	23/2/21	Decomposition, BCNF, Third		
28	24/2/21	Fourth & More Normal forms		
29	25/2/21	Overall database Design process		
30	26/2/12	Query processing		
31	1/3/21	Selection operation		
32	2/3/21	Join operation		
33	3/3/21	Evaluation of expression		
34	4/3/21	Query optimization		
35	5/3/21	Estimate statistics of expression results		
36	8/3/21	Transformation of Relational expressions.		
37	9/3/21	Choice of evaluation plan		
38	10/3/21	Materialized view		
39	11/3/21	Transaction Management.		
40	12/3/21	Transaction concept		
41	15/3/21	Automicity and Durability		
42	16/3/21	Concurrent execution		
43	17/3/21	Serializability		
44	18/3/21	Recoverability		
45	19/3/21	Implementation of Isolation		
46	22/3/21	Transaction definition in SQL		
47	23/3/21	Testing for Serializability		
48	24/3/21	Concurrency Control		
49	25/3/21	Timestamp - Based protocol		
50	26/3/21	Validation - Based protocol		
51	29/3/21	Multiple Granularities		
52	30/3/21	Multiversion Schemes		
53	31/3/21	Deadlock handling		
54	2/4/21	Insert and delete operation		
55	5/4/21	Recovery System		
56	6/4/21	Stored procedure		

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(2020-2021) SUMMER-2021

Subject :- SSELE(41T05) Sem:- IV

Name Of Subject Teacher :- Prof. A. G. Mahalle Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
01	01/02/21	Vision & Mission of Institute and department		
		POs, PEOs & PSOs, COs & CLOs, Syllabus		
02	03/02/21	UNIT I : Basics of social science		
03	09/02/21	Importance of study of social science to Engineers		
04	10/02/21	Constitution of India		
05	13/02/21	Salient features of Indian Constitution		
06	15/02/21	Fundamental Rights		
07	16/02/21	Fundamental duties		
08	17/02/21	Directive principles of state Policy (DPSP)		
09	22/02/21	Difference between fundamental Rights & DPSP		
		UNIT II :		
10	23/02/21	Indian Parliament & it's composition		
11	24/02/21	Powers of Indian parliament		
12	27/02/21	President of India		
13	01/03/21	Powers of the President		
14	02/03/21	Prime Ministers : Powers & functions		
15	03/03/21	Council of Ministers		
16	09/03/21	Difference between Cabinet & council of ministers		
		UNIT III :		
17	10/03/21	Culture and it's characteristics		
18	13/03/21	Civilization and it's characteristics		
19	15/03/21	Impact of Science & Technology on Culture & Civilization		
20	17/03/21	Society and its characteristics		
21	20/03/21	Groups & types of groups.		
22	22/03/21	X/Community and its characteristics		
23	23/03/21	Marriage : Functions, types & problems		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
24	24/03/21	Family: Functions, types and problems		
		UNIT IV :		
25	27/03/21	Meaning of production		
26	31/03/21	Factors of production: Land, Labour		
27	03/04/21	Capital, organization		
28	05/04/21	Laws of Returns		
29	06/04/21	Forms of Business Organization: Individual Enterprise		
30	07/04/21	Partnership, Joint stock Company		
31	10/04/21	Comparison between partnership & joint stock comp		
32	12/04/21	Cooperative organization & public enterprise		
		UNIT V :		
33	17/04/21	Banking and its types		
34	19/04/21	Functions of Central Banks		
35	20/04/21	Functions of Commercial Banks		
36	21/04/21	Comparison between Central & commercial Bank		
37	24/04/21	Introduction to GST		
38	25/05/21	Market forms: Perfect competition		
39	29/05/21	Imperfect competition: Monopoly		
		UNIT VI :		
40	31/05/21	Definitions of Economics		
41	31/05/21	Nature & scope of economics		
42	01/06/21	Special significance of Economics to Engineers		
43	02/06/21	Economics of development		
44	05/06/21	Characteristics of development (under)		
45	08/06/21	Obstacles to economic growth		
46	09/06/21	Vicious circle of poverty		

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Subject :- Database management systems (6IT02) **Sem:-** 6th

Name Of Subject Teacher :- P. R. Nerkar **Section :-** A / B

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
↑	1.	18-01-2021	CO, PO, CLO, Graduate Attribute.		
	2	19-01-21	Database system applications,		
	3.	20-01-21	Database systems Versus file systems		
	4.	21-01-21	View of Data, Data models		
	5.	22-01-21	Database languages		
	6.	25-01-21	Database users and administrators, Transaction mangt		
Unit I	7.	27-01-21	Database System structures		
	8.	28-01-21	Application architectures, History of Database system		
	9.	29-01-21	Entity - Relationship model		
	10.	01-02-21	Basic concepts, Constraints, Keys		
	11.	03-02-21	Design Issues, E-R diagram		
	12.	04-02-21	Weak Entity sets.		
	13.	05-02-21	Extended ER features, Design of an ER database schema.		
↓	14.	12-02-21	Reduction of an E-R schema to tables		
↑	15.	15-02-21	Relational model		
	16	16-02-21	Structure of relational databases.		
	17.	17-02-21	The relational algebra		
	18.	18-02-21	Extended Relational - algebra Operations		
	19.	24-02-21	Modification of the database, Views.		
Unit II	20.	25-02-21	Tuple relational calculus		
	21.	26-02-21	Domain relational Calculus		
	22.	01-03-21	SQL: Basic Structure.		
	23	02-03-21	Set Operation.		
	24	03-03-21	Aggregate functions		
	25	04-03-21	Null values.		
↓	26	05-03-21	Nested Sub queries. Views.		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
↑	27	08-03-21	Integrity and security, Domain Constraints		
	28	09-03-21	Referential Integrity, Assertions.		
	29	10-03-21	Triggers		
Unit III	30	12-03-21	Security and Authorization, Authorization in SQL		
	31	12-04-21	Encryption and Authentication.		
	32	15-04-21	Relational Database design, First normal forms		
	33	29-04-21	Pitfalls in relational database design.		
	34	30-04-21	Functional dependencies, decomposition, BCNF.		
	35	03-05-21	Third and Fourth normal form.		
*	36	05-05-21	Overall database design process.		
	37	06-05-21	Query Processing: Overview, Measures of query cost		
	38	07-05-21	Selection Operation, Sorting.		
	39	10-05-21	Join.		
Unit IV	40	11-05-21	Evaluation of Expressions.		
	41	12-05-21	Query optimization.		
	42	17-05-21	Overview		
	43	19-05-21	Transformation of relational expressions.		
	44	20-05-21	Choice of Evaluation Plans.		
*	45	21-05-21	Materialized Views.		
	46	24-05-21	Transaction Management: Transaction State.		
Unit V	47	25-05-21	Implementation of Atomicity and Durability		
	48	27-05-21	Concurrent Execution, Serializability, Recoverability		
	49	28-05-21	Implementation of Isolation.		
	50	31-05-21	Testing for Serializability.		
*	51	01-06-21	Concurrency Control: Lock-Based Protocol		
	52	02-06-21	Timestamp-Based Protocol, Validation Based Pro.		
Unit VI	53	03-06-21	Multiple Granularities,		
	54	04-06-21	Deadlock handling.		
	55	07-06-21	Insert and delete operations.		
↓	56	08-06-21	Recovery Systems: Issues & Solutions.		

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Subject :- Data Structure Sem:- IV

Name Of Subject Teacher :- Dr. Pranjali P Deshmukh Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	1/2/2021	Vision, mission of college, department PEO, PO & PSO discussion		
2	2/2/2021	Introduction of DS, clo & co of subject		
3	4/2/21	Data structures and types		
4	5/2/21	Algorithm, notations and complexity		
5	6/2/21	string processing operations		
6	8/2/21	First pattern matching algo. with complexity & example		
7	9/2/21	second pattern matching, example & complexity		
8	11/2/21	Array, memory representations, types of array		
9	13/2/21	algorithms on array, traversing, Searching		
10	16/2/21	Insertion, deletion and appln of array		
11	18/2/21	Unit-II - Introduction to Linked list		
12	20/2/21	Linked list representation in memory using array		
13	22/2/21	Types of linked list, traversing algo. complexity		
14	23/2/21	Insertion algorithms and example complexity		
15.	25/2/21	Deletion algorithms, examples and complexity		
16	26/2/21	Searching algorithms, example, complexity		
17	1/3/21	Doubly linked list and representation in memory		
18	2/3/21	Algorithms on DLL and its complexity		
19	4/3/21	Unit-III Introduction to stack, def n memory representation		
20	5/3/21	operations on stack, push pop using array & linked list		
21	6/3/21	Stack applications - recursion, Polish notation		
22	8/3/21	Conversion infix to postfix using stack		
23	9/3/21	Tower of honoi problem, algo. & complexity		
24	12/3/21	Queue - Definition memory representation using array & linked list		
25	13/3/21	Types of Queue, operations on Queue		
26	15/3/21	Insertion, deletion, Searching, appln		
27	16/3/21	Dequeue, priority Queue & example		

Unit 1

unit

Uni

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	18/3/21	Unit - IV Introduction to sorting & searching		
29	20/3/21	Bubble sort algorithm example, complexity		
30	25/3/21	Quick sort algorithm example, complexity		
31	26/3/21	Insertion sort algo. example & complexity		
32	27/3/21	Heap sort algo. example, complexity		
33	30/3/21	merge sort, merging example, algo. complexity		
34	1/4/21	Bucket sort Algo. example & complexity		
35	3/4/21	Application discussion on sorting algo.		
36	5/4/21	Unit - V - Introduction to nonlinear data structure tree		
37	6/4/21	Tree, terminology, Types of tree		
38	8/4/21	Binary tree and representation in memory		
39	9/4/21	traversing in binary tree using stack		
40	10/4/21	Binary search tree, searching, inserting deleting nodes		
41	12/4/21	Heap tree, algorithm and example		
42	15/4/21	Pathlength & Huffman's algorithm		
43	16/4/21	spanning trees, B+ trees		
44	17/4/21	Basic concept of Kruskal's and Prims algo.		
45	19/4/21	B trees and B+ trees algo.		
46	22/4/21	Unit - VI - Graph definitions & introduction		
47	23/4/21	Sequential and linked-list representation of graph		
48	24/4/21	Warshall's algorithm, example, complexity		
49	26/5/21	Bridges in graph, Johnson algorithm		
50	25/5/21	Graph traversals - Breadth first search		
51	28/5/21	Depth first search, topological sort		
52	29/5/21	Shortest path algorithm, Unweighted shortest path		
53	3/6/21	Basic concepts of Dijkstra's algorithm		

Unit-4

Unit-5

Unit

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Subject :- 6FEITC5 (i) E-Commerce Sem:- VI th

Name Of Subject Teacher :- Prof Shailesh P Thakare Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	22/01/21	Introduction of E-Com. The difference bet E-Comm & E-business. Why Study E-Comm.	SPT	
2	23/01/21	Eight Unique features of E-Comm Tech.	SPT	
3	23/01/21	Types of E-commerce	SPT	
4	29/01/21	Growth of the Internet & the Web	SPT	
5	30/01/21	Origin & Growth of E-Commerce	SPT	
6	30/01/21	E-Commerce - A brief history	SPT	
		UNIT II		
7	05/02/21	E-Comm business Models & Concepts: Eight Key elements of Business model	SPT	
8	06/02/21	Major Business-to-Consumer (B2C) model	SPT	
9	06/02/21	—— 11 ——	SPT	
10	12/02/21	Business Models emerging in E-Comm areas	SPT	
11	13/02/21	How the Internet & the WEB Change business Strategy, Structure & Process	SPT	
12	13/02/21	—— 11 ——	SPT	
		Unit III		
13	20/02/21	The Internet: Technology Background	SPT	
14	20/02/21	—— 11 ——	SPT	
15	26/02/21	The Internet today	SPT	
16	27/02/21	Internet II, The future Infrastructure	SPT	
17	27/02/21	The World Wide Web	SPT	
18	05/02/21	The Internet & the Web features.	SPT	

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
19	06/03/21	Building an E-Comm web site-A Strategic approach		
20	06/03/21	—11—		
21	12/03/21	Choosing Server Software		
22	13/03/21	—11—		
23	13/03/21	Choosing the hardware for E-Comm site		
24	30/04/21	other E-Commerce site tools.		
		Unit V		
25	07/05/21	online Security & Payment Systems: The E-Comm. Security Environment.		
26	08/05/21	Security threads in the E-Comm Environment		
27	08/05/21	Technology Solutions		
28	14/05/21	—11—		
29	15/05/21	Management Policies, business Procedures & Public laws.		
30	15/05/21	Payment Systems.		
		Unit VI		
31	21/05/21	Consumer Online; The Internet Audience & Consumer behaviors.		
32	22/05/21	—11—		
33	22/05/21	Basic marketing Concepts, Internet marketing technologies.		
34	28/05/21	—11—		
35	29/05/21	B2C & B2C E-Commerce marketing & Branding Technologies		
36	29/05/21	—11—		

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Sem:- ~~VII~~ VIIth

Subject :- 6FEITOS(ii) Knowledge Management

Section :- A / B

Name Of Subject Teacher :- Prof. R. P. Fake

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
		I		
1	22-1-21	Key assumptions & importance of KTM		
2	23-1-21	Knowledge Society Concept & Criteria		
3	23-1-21	Objectivisit Perespective on knowledge.		
4	29-1-21	Typologies of knowledge & Theory of fiem		
5	30-1-21	Feature of Practice base perespective		
6	30-1-21	Management of knowledge.		
7				
		II		
7	5-2-21	KTM & business Strategy.		
8	6-2-21	Conceptualizing the diversity of Knowle		
9	6-2-21	Knowledge work & ambiguity.		
10	12-2-21	Knowledge intensive firm & Process		
11	13-2-21	hetrogeneity of KTM, Organizational		
12	13-2-21	learning & KTM.		
		III		
13	20-2-21	Innovation Process		
14	20-2-21	Nonaka Knowledge Creation		
15	26-2-21	dynamic of innovation NIW proces		
16	27-2-21	Organizational forgetting.		
17	27-2-21	Barriess to Unlearning.		
18	5-3-21	innovation as an interactive process		
		IV		
19	6-3-21	The Share/hocard dilema		
20	6-3-21	Employment relationship		
21	12-3-21	Inter-personal trust		
22	13-3-21	Group identity, personality.		
23	13-3-21	Communities of practice		
24	30-4-21	Ubiquity of Conflict in business		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
V	7-5-21	Characterizing Cross Community		
	8-5-21	Identity trust & Social relations		
	8-5-21	The Power / Knowledge relationship		
	14-5-21	The dialogical discourse on KTM		
	15-5-21	Managing knowledge bet^n Communities		
	15-5-21	classification of boundry types		
	15--21	Critical discourse on KTM		
VI	21-5-21	Linking KM to ICT		
	22-5-21	Socio-cultural factor in ICT		
	22-5-21	debates regarding role of ICT		
	28-5-21	HRM Practice		
	29-5-21	HRM, Staff retenation, Leadership		
	29-5-21	Objective & practice base perespective on ICT		

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Subject :- Digital & Wireless Communication **Sem:-** VIII

Name Of Subject Teacher :- Prof (Dr) P. V. Ingole **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1		UNIT I Discussion on Co-4 DWC Syllabus & Intro		
		Elements of Communication System		
		Working of Communications System.		
		Transmitter, Receiver Modulator - Demod.		
		Def of Information, Unit of Information		
		Entropy (H) & numericals.		
		Rate of Information		
		Joint Entropy, Conditional Entropy		
		Mutual Information Channel Capacity Shannon's Th.		
		Channel Capacity & it's Calculation using S-FIT		
		Coding, Coding Techniques, fixed variable Markov Diagram		
		Shannon fano Coding Technique, Coding Efficacy		
		Numericals		
		UNIT II: Error controlling & Coding		
		Methods of Controlling errors.		
		Linear Block codes		
		LBC examples. Error Detection & Error Correction		
		Single error correcting Hamming Code		
		Cyclic Codes Examples on Cyclic Code		
		Convolutional Codes & Examples.		
		Numericals.		
		UNIT III – Intro. to Spread Spectrum Signals		
		PN Sequence Generator, Direct Sequence SS.		
		Introduction to Freq Hopping SS.		
		Slow & Fast FHSS.		
		Continued. Discussion.		
		Introduction to TDMA, FDMA, CDMA Tech		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
UIV			UNIT IV : Introduction to Wireless Comm.		
			Concept & Generations.		
			Concept of Cell in Cellula network		
			Cellular Telephone Architecture 2G, 4G		
			Freq Reuse ; cellula freq Reuse		
			Cell Splitting & sectoring		
			Roaming Concept, Roaming & Handoff		
			Numericals. Soft hand off, Hard Handoff.		
UV			UNIT V Introduction to GSM		
			GSM Network Architecture		
			Protocol Architecture		
			GSM Forward Channel		
			GSM Reverse Channel		
			Authentication & Security in GSM.		
			Architecture of CDMA		
			System IS-95, CDMA, Numericals.		
UVI			UNIT VI		
			IEEE 802.11 WLAN Technology		
			IEEE 802.15 WPAN Technology		
			IEEE 802.16 WMAN Technology		
			WMAN Technology : Mobile Ad-hoc N/w		
			Mobile IP & Mobility Management		
			Wireless Sensor Networks, ~~RFID Tech.~~		
			Introduction to RFID & RFID Technology		
			Security requirements for RFID N/w.		
			Satellite comm. System.		
			OPTIC FIBER, Information about Submarine Cables		
			LEO, MEO, GEO.		

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(2020-2021)

Subject :- Theory of computation **Sem:-** VI th

Name Of Subject Teacher :- N.V. Kadam **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
Unit: I	1	28.12.20	Alphabet, Language, operations		
	2	2.1.21	Finite State Machine Model		
	3	3.1.21	Acceptance of strings & languages		
	4	4.1.21	Non deterministic finite Automata		
	5	5.1.21	Problems		
	6	9.1.21	Equi Problems on FA		
	7	10.1.21	Problems on DFA		
	8	11.1.21	Conversion of NFA to DFA		
	9	12.1.21	Problems		
	10	16.1.21	Minimization of FSM		
	11	17.1.21	Problems		
	12	18.1.21	Equivalence between FSM's		
	13	19.1.21	Moore Machines		
	14	23.1.21	Mealy Machines		
	15	24.1.21	Conversion problems		
	16	25.1.21	Problems		
Unit: II	17	26.1.21	Regular sets, Exp^n, Regular sets		
	18	30.1.21	Manipulation of RE		
	19	31.1.21	Problems		
	20	1.2.21	Equivalence between RE & FA		
	21	2.2.21	Equivalence Problems		
	22	6.2.21	Inter Conversion		
	23	7.2.21	Pumping Lemma		
	24	8.2.21	Problems PM		
	25	9.2.21	closer properties		
	26	13.2.21	Regular Grammer		
	27	14.2.21	problems		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	28	15.2.21	Equivalence between RLG1 & FA		
	29	16.2.21	Inter Conversion between RE & RG1		
Unit: III	30	20.2.21	Context Free Grammer		
	31	21.2.21	Derivation Tree		
	32	22.2.21	Problems		
	33	23.2.21	CNF		
	34	27.2.21	GNF		
	35	28.2.21	PDA problems		
	36	29.2.21	Problems		
	37	30.2.21	Problems		
	38	4.3.21	CFL Model		
	39	5.3.21	problems		
	40	6.3.21	Equivalence of CFL & PDA		
	41	7.3.21	Interconversion		
	42	11.3.21	Enumeration properties of CFL		
Unit: IV	43	12.3.21	Turing Machine Design		
	44	13.3.21	Computation functions		
	45	14.3.21	Recursive Enumerable Language		
	46	18.3.21	Church's Hypothesis, counter		
	47	19.3.21	Types of TM		
	48	20.3.21	Problems.		
Unit: V	49	21.3.21	Chomsky Heirarchy of Languages		
	50	25.3.21	LBA		
	51	26.3.21	CSL		
	52	27.3.21	Introduction to DCFL & DPDA		
	53	28.3.21	LR(0)		
	54	2.4.21	Problems.		
Unit: VI	55	3.4.21	Properties of Recursive & Non-R language		
	56	4.4.21	Universal TM		
	57	5.4.21	PCP		
	58	8.4.21	PCP		
	59	9.4.21	Ackermann's function		
	60	10.04.21	Problems on Ackermann's function		

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Subject :- DWC Sem:- VIII

Name Of Subject Teacher :- S.V.DHOPTE Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
1	18/1	Elements of Digital com.sys			I.
2	19/1	Source Encoder/Decoder			
3	20/1	Channel Encoder/Decoder			
4	21/1	Entropy			
5	22/1	Source entropy, Avg. entropy			
6	25/1	Joint & Conditional entropy			
7	27/1	Coding efficiency Shennon			
8	28/1	Shannon theorem, channel cap.			
9	29/1	Shannon-Fano Coding			
10	1/2	Linear Block Codes			II
11	2/2	X = D.G. & C = D.P.			
12	3/2	Error Detection & correction			
13	4/2	Syndrom Calculation.			
14	5/2	Cyclic Code, Genrator poly			
15	8/2	Encoder of convolutional code			
16	9/2	Varies methods.			
17	10/2	Spread Spectrum Technique			III
18	11/2	Direct Seqn. SST			
19	12/2	PN Seqn. Generation			
20	15/2	Freqn Hopping Fast & slow			
21	18/2	Basic TDMA, FDMA, CDMA			
22	22/2	Introduction Mobile telephony sys			IV
23	23/2	GSM- Cellular Telephone architecture			
24	24/2	Freqn. Reuse			
25	25/2	cell splitting, Sectorization			
26	26/2	Roaming, Handoff			
27	1/3	Soft and Hard Hand off.			

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	2/3	GSM System		V
29	3/3	GSM n/w and Architecture		
30	4/3	GSM Forward channel		
31	5/3	GSM Reverse Channel		
32	8/3	GSM Protocol Architecture		
33	9/3	Authentication & Security GSM.		
34	10/3	Architecture of ~~GSM~~ CDMA		
35	12/3	System IS-95		
36	15/3	Numericals		
37	16/3	Numericals		
38	17/3	IEEE 802.11 WLAN technology		VI
39	18/3	IEEE 802.15 WPAN -11-		
40	19/3	IEEE 802.16 WMAN -11-		
41	22/3	MANETs		
42	23/3	Mobile IP and Mobility Manag.		
43	24/3	RFID Technology		
44	25/3	Security Requirements		
45	26/3	Numericals		
46	29/3	Satellite Basic Comm. Sys.		
47	30/3	LEO MEO		
48	31/3	GEO.		
49				
50				
51				

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Subject :- NAS

Sem:- VIII

Name Of Subject Teacher :- S I Saudagar

Section :- A / B

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	1	18/01/21	Mission, Vission, Syllabus, CLO of subject	Saud	
	2	19/01/21	introduction to n/w security	Saud	
	3	20/01	passive & active attacks	Saud	
	4	20/01	access control, internet standard	Saud	
	5	21/01	internet society, RFC publish.	Saud	
I	6	22/01	Internet security model.	Saud	
	7	25/01	Security triad, authentication	Saud	
	8	27/01	confidentiality, security services,	Saud	
←	9	28/01	security mechanism	Saud	
	10	29/01	Cryptography : encryp principle	Saud	
	11	01/02	symmetric encryption & algo.	Saud	
	12	2/2	Data Encryption standard algo	Saud	
	13	3/2	3DES, advantages, disadvantage	Saud	
	14	4/2	Block cipher, AES	Saud	
	15	5/2	AES algorithm usefullness & limit	Saud	
II	16	8/2	public key cryptography	Saud	
	17	9/2	message authentication, MAC	Saud	
	18	10/2	Digital signature (MD5)	Saud	
←	19	11/2	SHA-1, SHA-512 algorithms	Saud	
	20	12/2	introduc to n/w security applic	Saud	
	21	15/2	Kerberos usefulness & limitation	Saud	
	22	17/2	X.509 directory authentic service	Saud	
	23	18/2	E-mail security	Saud	
	24	22/2	MIME, advantage, concepts.	Saud	
	25	23/2	MIME, limitations, concepts.	Saud	
	26	24/2	PGP concept & operation descrip	Saud	
	27	25/2	SMIME (secure MIME)	Saud	

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
III	28	26/2	SMIME functionality & usefulness	Saud	
	29	01/03	IP security concept & overview.	Saud	
	30	02/03	IP Sec architecture	Saud	
	31	03/03	web security, concept & requirement	Saud	
	32	04/03	SSL (secure socket Layer)	Saud	
	33	05/03	Transport Layer security	Saud	
	34	08/03	secure electronic transaction	Saud	
IV	35	09/03	SET, TES, Authentication header	Saud	
	36	10/03	authentic^{n} header requirement	Saud	
	37	12/3	Introduct^{n} to n/w security maggemt	Saud	
	38	15/3	Basic concept of SNMP	Saud	
	39	16/3	N/w management architecture	Saud	
	40	19/4	SNMP protocol	Saud	
	41	20/4	SNMP proxies, services.	Saud	
	42	22/4	SNMPV1 authentication service	Saud	
V	43	23/4	Access policy & proxy service	Saud	
	44	23/4	SNMPV2 protocol architecture	Saud	
	45	29/4	SNMP version 1 & 2 differences.	Saud	
	46	30/4	system security concepts Intruders.	Saud	
	47	3/5	Intrusion technologies,	Saud	
	48	4/5	introduction to password protect^{n}	Saud	
	49	6/5	password selection strategies.	Saud	
	50	10/5	Introd^{n} to related threats, viruses.	Saud	
	51	11/5	nature of viruses, types of viruses.	Saud	
VI	52	12/5	viruses & anti-viruses approach.	Saud	
	53	17/5	micro viruses, Firewal concepts.	Saud	
	54	18/5	types of firewalls & configuration	Saud	
	55	19/5	Intrusion detec^{n}, trusted system	Saud	
	56	20/5	Data access control concepts.	Saud	
	57	21/5	usefullness of data acces controls.	Saud	
	58.	24/5	Revision of all unit MCQs - I	Saud	
	59.	25/5	II, III, IV, V, VII units sample MCQs.		

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Subject :- Computer Organization & Architecture **Sem:-** IV

Name Of Subject Teacher :- Prof A.W Burange **Section :-** A / B

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
Unit I	1	2/2/21	Introduction to basic structure of comp.		
	2	3/2/21	Basic structure of computer		
	3	4/2/21	Concept of Program Sequencing		
	4	6/2/21	Concept of memory locations & Address		
	5	9/2/21	Main memory operation		
	6	10/2/21	Instructions & instruction Sequencing		
	7	11/2/21	Addressing modes		
	8	12/2/21	Addressing modes with examples		
	9	13/2/21	Basic I/O operations		
	10	16/2/21	Queues & Subroutines		
Unit II	11	17/2/21	Introduction to Processing		
	12.	18/2/21	Fundamentals of Processing		
	13.	20/2/21	Execution of Complete instruction		
	14.	23/2/21	Performance Consideration		
	15.	24/2/21	Introduction to microinstructions		
	16	25/2/21	Microinstructions, microprogram seq.		
	17	27/2/21	Microinstruction prefetching		
Unit III	18	2/3/21	Introduction to I/O Organization		
	19	3/3/21	Accessing I/O devices		
	20	4/3/21	Introduction & Study of interrupts		
	21	6/3/21	Direct Memory Access		
	22	9/3/21	I/O hardware introduction		
	23	10/3/21	processor bus & interfacing circuits		
	24	13/3/21	Std. I/O interfaces fundamentals		
	25	16/3/21	SCSI Bus in detail		
	26	17/3/21	backplane bus standard		
	27	18/3/21	PCI Bus & Revision		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	28.	20/3/21	Memory Unit : basic concepts		
	29.	23/3/21	Semiconductor RAM memories		
	30.	24/3/21	Internal org. of memory		
	31.	25/3/21	Internal structure of static & Dynamic memory		
Unit IV	32.	27/3/21	Detail design structure with en.		
	33.	30/3/21	Static RAMs & its use		
	34.	31/3/21	Dynamic RAMs & its use		
	35.	1/4/21	ROMs & its types		
	36.	3/4/21	Diff. between ROM types		
	37.	6/4/21	Speed, Size & Cost consideration		
	38.	7/4/21	Revision of Unit IV		
	39.	8/4/21	Cachememories : introduction		
	40.	10/4/21	Cache memory performance Consider.		
	41.	15/4/21	Virtual memories introduction		
Unit V	42.	17/4/21	Address translation in Virtual memory.		
	43.	20/4/21	Multiprocessor introduction		
	44	21/4/21	Use of multiprocessors		
	45	22/4/21	Symmetric multiprocessor		
	46	24/4/21	clustures & its use		
	47	28/4/21	Revision of Unit V		
	48	25/5/21	Arithmetic number representation		
	49.	27/5/21	Design of fast Adders		
	50	29/5/21	Signed Addition & Subtraction		
Unit VI	51.	1/6/21	Multiplication of positive nos., Seq. multiplication, fast multiplication		
	52.	2/6/21	Booth's Algorithm for multiplicati		
	53.	3/6/21	Integer division, Restoring & non-Restoring division		

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Subject :- SS&EE(41T05) **Sem:-** IV

Name Of Subject Teacher :- Prof. A.G. Mahalle **Section :-** A / ~~B~~

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
01	03/02/21	Vision and Mission of Institute & dept.		
		POs, PEOs and PSOs, COs and CLOs. Syllabus		
02	05/02/21	UNIT I : Basics of Social Science		
03	10/02/21	Importance of study of social science to Engineer		
04	12/02/21	Constitution of India		
05	13/02/21	Salient features of Indian Constitution		
06	15/02/21	Fundamental Rights		
07	17/02/21	Fundamental Duties		
08	20/02/21	Directive principles of state policy		
09	22/02/21	Difference between fundamental rights & DPSP		
		UNIT II :		
10	24/02/21	Indian parliament & its composition		
11	26/02/21	Powers of Indian parliament		
12	27/02/21	President of India		
13	01/03/21	Powers of the President		
14	03/03/21	Prime Minister: Powers & functions		
15	05/03/21	Council of Ministers		
16	10/03/21	Difference between Cabinet & council of ministry		
		UNIT III :		
17	12/03/21	Culture and its characteristics		
18	13/03/21	Civilization & its characteristics		
19	15/03/21	Impact of Science & Technology on culture & civilization		
20	17/03/21	Society and its characteristics		
21	19/03/21	Community & its characteristics		
22	20/03/21	Groups & types of groups		
23	22/03/21	Marriage: Functions, types & problems		
24	26/03/21	Family: Functions, types & problems		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
		UNIT IV		
[illegible]	[illegible]/05/21	Meaning of Production		
26	21/03/21	Factors of production (land & labour)		
27	03/04/21	Capital & Organization		
28	07/04/21	Laws of Returns		
29	07/04/21	Forms of business organization: Individual Enterprise		
30	09/04/21	Partnership, Joint stock Company		
31	10/04/21	Comparison of joint stock comp. and partnership		
32	14/04/21	Co operative organization & Public Enterprise		
		UNIT V		
33	17/04/21	Banking and its types		
34	19/04/21	Functions of Central Banks		
35	21/04/21	Functions of Commercial Banks		
36	23/04/21	Comparison between Central & Commercial banks		
37	24/04/21	Introduction to GST		
38	24/05/21	Market forms: Perfect competition		
39	28/05/21	Imperfect competition: Monopoly		
		UNIT VI :		
40	29/05/21	Definitions of Economics		
41	31/05/21	Nature and scope of Economics		
42	02/06/21	Special significance of Economics to Engineers		
43	04/06/21	Economics of development		
44	05/06/21	Characteristics of Under-development		
45	08/06/21	Obstacles to Economic growth		
46	09/06/21	Vicious circle of poverty		

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Execution Plan

(2020-2021) w-20

Subject :- Real Time Embedded Systems. **Sem:-** VII

Name Of Subject Teacher :- Prof M. S. Deshmukh **Section :-** ~~A~~ / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18/8/20	Discussion on - Vission, Mission, CLO & Syllabus		
2	19/8/20	Introduction to embedded systems.		
3	20/8/20	Processor in the system, types of processor.		
4	21/8/20	Hardware units required.		
5	25/8/20	Software embedded into a system		
6	27/8/20	Software or specific assembly language & high level language.		
7				
7	28/8/20	Device drives, device management using operating systems.		
8.	2/9/20	Software design for scheduling multiple task & devices using RTOS.		
9.	3/9/20	Embedded SoC and in VLSI circuit		
10.	4/9/20.	Unit - II Structural units of processor.		
11.	8/9/20	Allocation of memory.		
12.	9/9/20.	Memory map of the system.		
13	10/9/20	Memory blocks for different data sets & structure.		
14	11/9/20	Serial communication - I2C, CAN		
15	15/9/20	Device driver, virtual devices		
16	16/9/20	Device drives for parallel port, serial & timing devices		
17	18/9/20	Context switching, deadline & interrupt latency.		
18.	22/9/20	Software programming in assembly language & C.		
19	23/9/20	program elements, use of data structure, Queues, stacks, list & trees.		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
20	24/9/20	Use of data structure, function pointers		
21	25/9/20	Queues for implementing protocol for n/w		
22	29/9/20	Use of FIFO queues, stacks.		
23	30/9/20	list & ordered list		
24	1/10/20	Embedded programming in C++		
25	6/10/20	Embedded programming in java.		
26	7/10/20	Unit 4 - Modelling process, - use of dataflow & control data flow graph		
27	8/10/20	Progeamming model for event control: ys		
28	9/10/20	Use of finite state machine model		
29	13/10/20	Finite state machine - timer, C function		
30	14/10/20	Petri net model		
31	16/10/20	Modelling of multiprocessor systems.		
32	20/10/20	Multiple process in an application - process, task & thread.		
33	21/10/20	Unit 5 - IPC & synchronization. Use to semaphore for critical section		
34	22/10/20	Mutex, P & V semaphore. Priority inversion & deadlock.		
35	23/10/20	Use of signal, semaphore flags.		
36	27/10/20	Mutex as resource key.		
37	28/10/20	Use of message queues.		
38	29/10/20	Mailboxes, pipes		
39	3/11/20	Virtual sockets, RPCs.		
40	4/11/20	Unit 6 - Introduction to RTOS		
41	5/11/20	Scheduling management for real time		
42	6/11/20	Co-operative round robin, Circular queue		
43	24/11/20	RTOS scheduling model, Cyclic scheduling		
44	25/11/20	Preemptive scheduling, Precedence assign		
45	26/11/20	Fixed real time scheduling, precedence -		

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Subject :- **Sem:-**

Name Of Subject Teacher :- **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
46	27/11/20	Performance metrixs,		
47	1/12/20	IEEE standard POSIX 1003.1B.		
48	2/12/20	Fifteen point strategy for synchronization.		
49	3/12/20	Embedded linux kernel		
50	4/12/20	Revision of Unit- I		
51	8/12/20	Revision of Unit- II		
52	9/12/20	Revision of Unit- III		
53	10/12/20	Revision of Unit IV		
54	11/12/20	Revision of Unit- V		
55	14/12/20	Revision of unit- VI		

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Subject :- IT ethics & Practices **Sem:-** V th

Name Of Subject Teacher :- S. A. Chorey **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	21/8/20	An overview of ethics		
2	22/8/20	Ethics in business World		
3	22/8/20	Ethics in business World		
4	28/8/20	Ethics in IT		
5	29/8/20	IT professional		
6	29/8/20	Ethical behavior		
7	04/9/20	IT Security Incidents		
8	05/09/20	Types of Attack		
9	05/09/20	Prepatoss		
10	11/09/20	Reducing Vulnabilities		
11	12/09/20	Risk Assessment		
12	12/09/20	establishing a security policy		
13	18/09/20	Educating employees		
14	19/09/20	Contractors		
15	25/09/20	Post Hire Workers		
16	26/09/20	Prevention		
17	26/09/20	Detection, Response		
18	02/10/20	The Right of privacy		
19	03/10/20	Recent history of privacy.		
20	03/10/20	protection		
21	09/10/20	Governmental electronics Surviliance		
22	10/10/20	Data encryption		
23	10/10/20	Identity Theft		
24	16/10/20	Consumer profiling		
25	17/10/20	Treating customer data Responsibly		
26	17/10/20	Workplace Monitoring		
27	23/10/20	Advanced Surviedence		

UNIT I
UNIT II
UNIT III

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	24/10/20	First Amendment Rights		
29	30/10/20	obscene Speech, Defamation		
30	31/10/20	Controlling Access to Information on the Internet Anonymity		
31	06/11/20	National Security letters		
32	7/11/20	Defamation and Hate Speech		
33	27/11/20	Intellectual property		
34	28/11/20	copyrights		
35	28/11/20	Patents, Trade Secrets Laws		
36	4/12/20	plagarisam, Reverse engineering		
37	5/12/20	Open Source code, competive Intelligence, cyber Squatting		
38	5/12/20	Software Delopment, Strategies of engineer Quality Software		
39	11/12/20	The Importance of Software Quality		
40	12/12/20	Software Development process,		
41	12/12/20	capality Maturity Model Integration for Software		
42	18/12/20	Use of National Workers		
43	19/12/20	contigent Workers		
44	19/12/20	H-B Workers		
45	26/12/20	Whistle-Blowing, Protection for Whistle blowing		
46	26/12/20	The Impact of IT on the Std of living		
47	1/1/21	The digital divide		
48	2/1/21	ACM, AITP		
49	2/1/21	Software Engineering Code of Ethics and professional practice		
50	8/1/21	PMI Member Ethical Std & Member code of Ethics		

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Subject :- ALP **Sem:-** III

Name Of Subject Teacher :- P. V. Dudhe **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	17/08	Vision & Mission CLO of subject		
2	19/08	~~Unit II~~ Introduction to Number system		
3	20/08	Introduction to Number system		
4	21/08	Introduction to Microprocessor		
5	24/08	Microprocessor 8086 architecture BIU & EU		
I 6	27/08	Pin Configuration of 8086		
7	28/08	Software Model of 8086, Memory Address space		
8	31/08	IP & Data Registers Pointer, Index registers		
9	2/09	Memory Addresses generation, Maxm & Min Mode		
10	3/09	Timing cycle diagram of Max & Min Mode		
← 11	4/09	~~Unit II~~ Revision of Unit I. ~~8086~~ Instruction set overview		
12	07/09	Addressing Modes		
13	09/09	Addressing Modes		
II 14	10/09	8086 Instruction formats.		
15	11/09	8086 Integer Instructions and computation		
16	14/09	Data Transfer Instructions		
17	16/09	Arithmetic Instructions and their use		
18	18/09	in 8086 Programming sample programs Revision Unit II		
← 19	21/09	~~Unit III~~ 8086 instruction: logical Instruction.		
20	23/09	Shift and rotate Instructions		
21	24/09	Shift and rotate Instruction.		
III 22	25/09	8086 flag Register		
23	28/09	flag Control Instruction.		
24	30/09	Compare Instruction, control flow Jump		
~~25~~	1/10	Jump Instructions.		
26	5/10	Loops and loop handling Instruction.		
27	7/10	8086 Programming & Revision Unit III		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	8/10	Unit IV Stack & Subroutines stack related instruction.		
29	9/10	Stack related instructions.		
30	12/10	8086 I/O Address space.		
31	14/10	Subroutines and related instructin		
IV 32	15/10	Parameter passing, Co		
33	16/10	Concept of Macros		
34	19/10	Concept of Recursion at assembly		
35	21/10	8086 Programming using subroutins & Revision IV		
← 36	22/10	Unit V 8086 I/O Types of input output		
37	23/10	Isolated I/O interface		
38	26/10	Input output data transfers		
39	28/10	I/O instructions and bus cycles.		
V 40	29/10	PIC 8255 Introduction.		
41	02/11	Pin Configuration		
42	04/11	Internal organization		
43	5/11	Modes of operation &		
44	6/11	Modes of operations & Revision V		
← 45	23/11	Unit VI 8086 Interrupts, Interrupts types		
46	25/11	Priority & Instructions, Interrupt vector table		
VI 47	26/11	External hardware, interrupt interface signal. Non Maskable Interrupt		
48	27/11	PIC 8259 Pin diagram, internal organization		
49	2/12	Modes of operations & Revision VI		
50	3/12	Revision of all Units.		

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Subject :- Discrete Structure & Graph Theory **Sem:-** III
Name Of Subject Teacher :- Dr. A. S. Alvi **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
I	1	18/8/20	Statements and notations		
	2	20/8/20	connectives.		
	3	21/8	Normal forms		
	4	25/8	Equivalences		
	5	27/8	Principle of DNFs		
	6	28/8	principle of CNF		
	7	29/8	Inference Rule		
	8	03/09	The theory of inference for the statement calculus.		
	9	4/09	The theory of predicate		
	10	05/09	calculus.		
	11	07/09	Basic concepts of set theory		
	12	10/09	Representation of Discrete Structure.		
	13	11/09	Relation		
	14	12/09	Ordering of set.		
II	15	15/09	Functions, Recursion.		
	16	17/09	Recursive function.		
	17	18/09	sets and predicates.		
	18	19/09	Algebric systems.		
	19	22/09	Semi Groups.		
	20	24/09	Monoids.		
III	21	25/09	Grammar & Languages.		
	22	26/09	Polish expression.		
	23	29/09	polish expression & their compilation		
	24	01/09	Application of Residue Arithmetic to computers.		
	25	03/10	Lattices.		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	26	8/10	Partially ordered sets.		
	27	9/10	Lattices as an algebric system.		
	28	10/10	Boolean Algebra.		
	29	13/10	Boolean function.		
IV	30	15/10	Representation of Boolean fun^{n}.		
	31	16/10	Minimization of boolean f^{n}.		
←	32	17/10	Minimization of boolean f^{n} cont..		
	33	20/10	Graph theory basic concept.		
	34	22/10	Graph theory paths.		
	35	23/10	Reachability		
	36	24/10	Connectedness		
V	37	05/11	Matrix representation of graphs.		
	38	06/11	Matrix representation of graph cont.		
	39	07/11	Coloring of Graphs.		
←	40	24/11	storage representation & manipulation of Graph.		
	41	26/11	Basic concept of tree		
	42	27/11	Tree searching		
	43	28/11	Minimal spanning tree		
	44	3/12	Grammar, rooted tree.		
	45	4/12	Expression tree - B-tree		
	46	5/12	Distance between spanning tree of graph		
	47	5/12	PERT & Related techniques		
	48	5/12			

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Subject :- Artificial Intelligence & Expert System (AI & ES) **Sem:-** 7th

Name Of Subject Teacher :- Prof N.S. Bend **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	1.	11/08/21	Vision Mission of Institution & Department		
			PEO, PO, PSO		
	2.	13/8/21	Introduction of Artificial Intelligence, AI Problems		
	3.	17/8/21	The Underlying Assumption		
	4.	18/8/21	What is an AI Technique		
I	5.	20/8/21	Problems, Problem Spaces & Search		
	6.	23/8/21	Problem Characteristics		
	7.	24/8/21	Production Systems		
	8.	25/8/21	Production System Characteristics		
	9.	27/8/21	Issues in the Design of Search Programs		
	10.	30/8/21	Unit-2 :- Heuristic Search Techniques		
	11.	31/8/21	Generate-and-Test Algo.		
II	12.	1/9/21	Hill Climbing		
	13.	3/9/21	Best-first Search, A* Algorithm		
	14.	8/9/21	Problem Reduction, AND-OR Graphs		
	15.	14/9/21	The AO* Algorithm		
	16.	15/9/21	Constraint Satisfaction		
	17.	17/9/21	Means ends Analysis		
	18.	20/9/21	Knowledge Representation Issues,		
		~~21/9/21~~	Representations & Mappings		
	19.	22/9/21	Approaches to Knowledge Representation		
I	20.	24/9/21	Issue in knowledge Representation The Frame Probl.		
	21.	27/9/21	Predicate Logic: Representing Simple Facts in logic		
	22.	28/9/21	Representing Instance & ISA Relationship Computable Function & Predicates		
	23.	28/9/21	Resolution, Natural Deduction		
	24.	29/10/21	Representing Knowledge Using Rules, Procedural Vs Declarative Knowledge		
	25.	01/10/21	Logic Programming Forward Vs Backward Reasoning Matching, Control Knowledge.		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	26.	04/10/21	Unit-4 :- Symbolic Reasoning Under Uncertainty Introduction to Nonmonotonic Reasoning		
	27.	5/10/21	Logic for Nonmonotonic Reasoning		
IV	28.	8/10/21	Implementation Issues, Augmenting a Problem Solver		
	29.	11/10/21	Implementation : Depth-First Search, BFS		
	30.	12/10/21	Statistical Reasoning Probability & Bayers Theory		
	31.	13/10/21	Certainty Factors & Rule-based Systems.		
	32.	18/10/21	Bayesian Networks, Semantic Nets, Frames		
	33.	20/10/21	Unit-5 :- What is Understanding		
	34.	22/10/21	Understanding as Constraint Satisfaction		
V	35.	25/10/21	Natural Language Processing, Syntactic Processing		
	36.	26/10/21	Semantic Analysis, Discourse & Pargmatic Processing		
	37.	27/10/21	Statistical Natural Language Processing		
	38.	29/10/21	Spell Checking		
	39.	8/11/21	Common Sense Qualitative Physics		
	40.	9/11/21	Common Sense Ontologies		
	41.	10/11/21	Unit-6 :- Expert System Representing & Using Domain Knowledge		
	42.	12/11/21	Expert System Shells.		
VI	43.	15/11/21	Knowledge Acquisition		
	44.	16/11/21	Fuzzy Logic Systems; Crisp Sets, Fuzzy Sets		
	45.	17/11/21	Some Fuzzy Terminology, Fuzzy logic Control		
	46.	19/11/21	Genetic Algorithms: Significance of Genetic operators		
			Termination Parameters		
	47.	22/11/21	Evolving Neural Network		

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Execution Plan

(2020-2021)

Subject :- Web Technology **Sem:-** VII

Name Of Subject Teacher :- Sneet D. Thakur **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1.	18/08/20	Mission vission & PEO, POs.		
2.	18/08/20	Basic of Internet Protocols & the		
3.	19/08/20	HTTP request message & world wide web		
4.	20/08/20	HTTP response message & web oriented concepts		
5.	21/08/20	Markup Languages : XHTML2 Basics		
6.	24/08/20	Introduction to web [illegible] or its concepts		
7.	25/08/20	Introduction to web servers		
8.	27/08/20	Fundamental of HTML5 Servers		
9.	28/08/20	Introduction to relative URL		
10.	31/08/20	List and table element in HTML		
11.	02/09/20	Frames & Forms element in HTML		
12.	03/09/20	Frameset element and it's application		
13.	04/09/20	XHTML abstract syntax definition		
14.	07/09/20	Creating HTML document		
15.	08/09/20	Introduction to CSS		
16.	09/09/20	CSS rules Cascade		
17.	10/09/20	CSS font formating properties		
18.	11/09/20	CSS Box model		
19.	14/09/20	CSS flow control model		
20.	15/09/20	CSS Normal flow Layout		
21.	16/09/20	Server side programming		
22.	18/09/20	Java Servlet introduction		
23.	21/09/20	Java Servlet architecture		
24.	22/09/20	Static & dynamic server pages		
25.	23/09/20	Servlet generating dynamic content		
26.	24/09/20	Servlet parameter & data		
27.	25/09/20	Servlet Session & concurrency		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
29.	29/09/20	URL Rewriting & concurrency		
30.	30/09/20	XML documents & vocabulary		
31.	01/09/20	DOM based XML processing		
32.	05/10/20	Transforming XML Documents		
33.	06/10/20	JavaBean classes, Tag libraries & files		
34.	07/10/20	Web service concepts		
35.	08/10/20	writing a java web services		
36.	09/10/20	Web services implementation		
37.	13/10/20	Representation of data types of XML Schema		
38.	14/10/20	Representation of data types of XML Schema		
39.	19/10/20	XML Schema implementation		
40.	21/10/20	writing a web service for client		
41.	22/10/20	Web service description language		
42.	23/10/20	Execution of Java server page application		
43.	27/10/20	Introduction of Java Server pages		
44.	28/10/20	Introduction to JavaBeans		
45.	03/11/20	Implimentation of tag libraries & JSP file		
46.	04/11/20	Implementation of JST for web service client		

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Lecture Plan (W-20)

Subject :- Discrete Structure & Graph Theory Sem:- III rd

Name Of Subject Teacher :- S.N. Sadd Section :- (A) / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1)	17/08/20	Introduction to subject. Statement & Notation		
2)	19/08/20	Connectivity & its truth table		
3)	20/8/20	well formed formula & equivalence formula		
4)	21/08/20	Normal form & thir types		
5)	24/08/20	Principal of CNF & DNF & their Problems		
6)	27/08/20	Inference Rules & Problems based on Inference		
7)	28/08/20	Theory of inference & their Predicate Calculus.		
8)	31/08/20	Basic Concept of Set theory		
9)	02/09/20	Set theory & their Properties		
10)	03/09/20	Representation of Set		
11)	04/09/20	Relation		
12)	07/09/20	ordering of a Set		
13)	09/09/20	Function & Recursion		
14)	10/09/20	Recursive function.		
15)	11/09/20	Set of Predicates		
16)	14/09/20	Matrix examples		
17)	16/09/20	Lattice & Partially order Set		
18)	18/09/20	Boolean Algebra		
19)	21/09/20	minterms & maxterms		
20)	23/09/20	Example Based on B.A.		
21)	24/09/20	K-map Representation.		
22)	25/09/20	Representation of Boolean function		
23)	28/09/20	Minimization of Boolean function		

Unit No I

Unit No 2

unit No 4

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
24)	30/09/20	Minimigation of Boolean function cont.	&	
25)	01/10/20	Algebraic System : Basic Concept.	&	
26)	05/10/20	Composition tables & theorm	&	
27)	07/10/20	Semigroup & Monoids	&	
28)	08/10/20	group, subgroup Cosets. Examp.	&	
29)	09/10/20	Grammer Basic Concept	&	
30)	12/10/20	Derivation with the help of grammer.	&	
31)	14/10/20	Trees Basic concept of trees.	&	
32)	15/10/20	Graph theory : Basic Concept of graph.	&	
33)	16/10/20	Degree of Nodes, indegree outdegree of Directed graph.	&	
34)	19/10/20	Matrix Representation of graph.	&	
35)	21/10/20	Adjustant matrix.	&	
36)	22/10/20	Examples Based on Adjustant matrix	&	
37)	23/10/20	Path matrix, Rechaleility,	&	
38)	26/10/20	Graph Colouring	&	
39)	28/10/20	Trees : Basic Concept	&	
40)	29/10/20	Tree : Searching trees	&	
41)	2/11/20	Minimal Spanny trees	&	
42)	4/11/20	Simple Precedance Grammer rooted trees	&	
43)	06/11/20	Expression trees, B trees	&	
44)	24/11/20	Distance Between Spanny trees of a graph	&	
45)	26/11/20	PERT & Related Techniques	&	
46)	27/11/20	PERT & Related Techniques Contin.	&	

Unit no 4

Unit No 3

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Subject :- CAO **Sem:-** V
Name Of Subject Teacher :- H.D.Kale **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
1	17/8/20	Introduction to Basic structure of computer	MY		Unit I
2	18/8/20	Basic structure : Hardware & Software	MY		
3	19/8/20	Addressing modes	MY		
4	20/08/20	Addressing modes (continue)	MY		
5	21/08/20	Program Sequencing	MY		
6	24/8/20	Concept of memory locations & address.	MY		
7	25/8/20	Main memory operation	MY		
8	27/8/20	Instruction & Instruction sequencing	MY		
9	28/8/20	Addressing modes	MY		
10	31/8/20	Basic I/O Operations	MY		
11	2/9/20	Queues & Subroutines	MY		
12	3/9/20	Introducing to processing unit: Fundamental concepts.	MY		Unit II
13	4/9/20	Execution of a complete instn.	MY		
14	7/9/20	Hardwired control	MY		
15	8/9/20	Performance consideration	MY		
16	9/9/20	Microprogrammed control	MY		
17	10/9/20	Micro instructions, microprogram sequencing	MY		
18	11/9/20	Microinstruction prefetching	MY		
19	14/9/20	Emulation	MY		
20	15/9/20	Introduction to I/O Organization	MY		
21	16/9/20	Accessing I/O devices	MY		
22	18/9/20	Introduction to Interrupts	MY		
23	21/9/20	Study of Interrupts	MY		

Cont

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
24	22/9/20	Direct memory access : bus arbitration		
25	23/9/20	I/O hardware introduction		
26	24/9/20	Processor bus and interfacing circuits		
27	25/9/20	Standard I/O interfaces fundamental		
28	28/9/20	SCSI Bus		
29	29/9/20	Backplane bus standard		
30	30/9/20	Memory unit : Basic concepts		
31	1/10/20	Semiconductor RAM memories		
32	5/10/20	IP Security architecture		
33	6/10/20	Web Security: Requirements		
34	7/10/20	Internal organization of memory		
35	8/10/20	Static & dynamic RAM's & ROM's		
36	9/10/20	Speed, size & cost consideration		
37	12/10/20	Cache memories : performance considerations		
38	13/10/20	Virtual memories, address translation		
39	14/10/20	Memory management requirement		
40	19/10/20	Arithmetic number representation		
41	20/10/20	Arithmetic No. reports (continue)		
42	21/10/20	Design of fast adders		
43	22/10/20	Signed addition and substraction		
44	23/10/20	Multiplication of positive no.		
45	26/10/20	Booth's algorithm		
46	27/10/20	Integer division		
47	28/10/20	Floating-point number and related operations.		

Institute of Technology & Research, Badnera- Amravati

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(2020-2021) W-20

Subject :- CAD

Name Of Subject Teacher :- H.D. Kale

Sem:- V

Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
48	29/10/20	Introduction to computer peripherals		
49	1/11/20	I/O devices like video displays, video terminals		
50	2/11/20	Graphics input devices & printers		
51	3/11/20	Introduction to online storage devices		
52	4/11/20	Online storage devices: Magnetic disks.		
53	5/11/20	Magnetic tape systems		
54	23/11/20	CD-ROM systems		
55	24/11/20	Communication devices: Modems		
56	25/11/20	Revision of V		
57	26/11/20	Revision		

Unit VI

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(2020-2021) W - 20

Subject :- Web-Technology **Sem:-** VII
Name Of Subject Teacher :- Prof. R.M. Tushangabade **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
1	17/08/20	Mission vision & PEO's, PO's & PS			U-1
		Introduction to web essentials			
2.	18/08/20	Basic of Internet protocols & the internet.			
3.	19/08/20	HTTP request message & world wide web concepts			
4	20/08/20	HTTP responce message & web client concepts			
5.	21/08/20	Markup languages : XHTML Basics			
6.	24/08/20	Intro^n to web servers			
7.	25/08/20	Fundamentals of HTML elements			
8.	27/08/20	Introduction to relative URL's			
9.	28/08/20	List and table elements in HTML			
10.	31/08/20	Frames & forms elements in HTML			
11.	02/09/20	Frameset elements and its applicatn			
12.	03/09/20	XHTML abstract syntax definition			
13	04/09/20	creating HTML document			
14.	07/09/20	Introduction to CSS			
15.	08/09/20	CSS rules cascade			U-2
16.	09/09/20	CSS font family properties			
17.	10/09/20	CSS Box model.			
18.	14/09/20	CSS flow control model.			
19.	14/09/20	CSS Normal flow layout.			
20.	15/09/20	CSS beyond Normal flow layout			
21.	16/09/20	server side programming.			U-
22.	18/09/20	Java servlet introduction			
23.	21/09/20	Java servlet architecture overvie			

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
24.	24/09/20	Static & dynamic server pages		
25.	25/09/20	servlet generating dynamic content		
26.	26/09/20	servlet parameters & data		
27.	27/09/20	servlet session contents		
28.	28/09/20	URL rewriting & concurrency		
29.	29/09/20	XML documents & vocabularies		
30.	30/09/20	Dom based XML processing		
31	01/10/20	Transforming XML document		
32	05/10/20	Introduction to java server pages & servlets		
33.	06/10/20	JavaBeans classes, Tag libraries & files		
34	07/10/20	web services concepts		
35.	08/10/20	writing a java web service		
36.	09/10/20	web service client introduction		
37	13/10/20	web service implimentation		
38.	14/10/20	Representation of data types of XML schema		
39.	19/10/20	XML schema implimentation		
40.	21/10/20	writing a web service for client		
41.	22/10/20	Web service description language implimentation for client.		
42.	23/10/20	Web service description language for server side application		
43.	27/10/20	Execution of Java server pages application		
44.	28/10/20	Introduction to JavaBeans classes		
45.	03/11/20	Implimentation of tag libraries & .. JSP files		
46	04/11/20	Implimentation of JSP for webservice client		

U-3

U-4

U-5

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(2020-2021) Winter-2020

Subject :- Operating System (5 IT01) **Sem:-**

Name Of Subject Teacher :- Prof. Umesh V. Nikam **Section :- A / ~~B~~**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	17/08/20	UNIT 01 : Introduction, os defination, evolution		
2	18/08/20	os services, process concept, scheduling operation		
3	19/08/20	Interprocess communication, coprating process		
4	20/08/20	Interprocess communication.		
5	21/08/20	Thread overview		
6	24/08/20	Multithreading models, java Threads.		
7	25/08/20	UNIT 02 : CPU scheduling concepts.		
8	27/08/20	scheduling criteria & algorithms.		
9	28/08/20	—"— SJF algorithm		
10	31/08/20	—"— RR algorithm		
11	01/09/20	—"— scheduling que algorithms.		
12	02/09/20	Process synchronization		
13	03/09/20	Critical section problem		
14	04/09/20	Synchronization hardware		
15	07/09/20	Semaphores, monitors		
16	09/09/20	Deadlocks : Delination, characterization		
17	10/09/20	prevention, avoidance, detect" & recovery		
18	11/09/20	UNIT 03 : Memory management & background		
19	14/09/20	swapping concept.		
20	15/09/20	contigeous memory allocation scheme		
21	16/09/20	segmentation.		
22	18/09/20	Virtual memory management : Background		
23	21/09/20	demand paging scheme.		
24	22/09/20	Process creation.		
25	23/09/20	Page replacement policies.		
26	24/09/20	Allocation of frames, Thrashing.		
27	25/09/20	UNIT 04 : File system Interface, Directory structure		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	28/09/20	File system mounting, sharing & protection		
29	29/09/20	structure & implementation		
30	30/09/20	Directory implementation		
31	01/10/20	allocation methods		
32	05/10/20	Free space management & File recovery		
33	06/10/20	UNIT 05 : I/O systems : overview		
34	07/10/20	I/O hardware		
35	08/10/20	Application I/O Interface		
36	09/10/20	Transforming I/O to H/W operations		
37	19/10/20	Disk scheduling, disk management.		
38	20/10/20	Swap-space management, RAID structure		
39	21/10/20	UNIT 06 : Linux system : History		
40	22/10/20	Design principles.		
41	23/10/20	Kernel modules, process management		
42	26/10/20	scheduling, memory management.		
43	27/10/20	File system, input and output.		
44	28/10/20	Interprocess communication.		
45	29/10/20	Network structure.		
46	02/11/20	Security in Linux.		

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Execution Plan

(2020-2021) ω-20

Subject :- 7ITO1 DSP **Sem:-** VII

Name Of Subject Teacher :- Prof (Dr.) P. V. Ingole **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
UNIT I 1	30/08/21	Introduction to DSP, COs, Sampling, Nyq. Theorem		I
2	31/08/21	Aliasing effect, A/D Converter Block diagram ADC		
3	01/09/21	ASP system, DSP System working with BD		
4	20/09/21	Advantages & Applications of DSP Systems		
5	21/09/21	Discrete Signal representation, Modified Signal		
6	22/09/21	Impulse Signal, Unit step, Unit ramp Signal		
7	23/09/21	Static & Dynamic System, Time Variant / Invariant		
& 8	27/09/21	Linear & Non Linear System, Causal & Non Causal Sys.		
UNIT II 9	28/09/21	Analysis of LTI System using Conv. Sum formula Num.		II
10	29/09/21	Analytical Method & Tabular Method step response		
11	30/9/21	Properties of Convolution		
12	1/10/21	Analysis of LTI Systems using Diff Eq^n		
13	4/10/21	Recursive & Non Recursive Systems.		
14	5/10/21	Zero Input (Natural) & Zero state response		
15	8/10/21	Homogeneous Solution, Particula Solution of DE		
16	9/10/21	Auto correlation, Cross correlation, Numerical		
UNIT III 17	20/10/21	Z Transform, Definition, Introduction ROC		T II C
18	21/10/21	Properties of z Transform, Time Shifting		
19	22/10/21	Time Reversal, Differentiation in z Domain		
20	25/10/21	Convolution Property of two signals in FD, Correlation		
21	26/10/21	Pole zero plot in z plane. Introduction to IZT		
22	27/10/	Power series method, PF method Residues of Contour Integration		
23	28/10.	Steady State Response, Schur Cohn Stability Criterion		
UNIT IV 24	8/11/21	Fourier Transform Introduction Defi rel w/th ZT		
25	9/11/21	Discrete Fourier Transform, DFT Numerical		
26	10/11/21	N Point DIT N=4, N=8 Plot Mag & Phase spectrum		
27	11/11/21	Twirdle factor & Use of it for finding DFT		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	28	22/11/21	IDFT, Properties of DFT		
	29	23/11/21	FFT Radix 2 iFT Algorithm Butterfly Diagram		
	30	24/11/21	DIT Radix2 Algo. DIF Radix 2 Algo.		
UNIT V	31	29/11/21	Realization of IIR filter		
	32	30/11/21	Direct form I, Direct Form II Implementation		
	33	01/12	Cascade form, Parallel form Implementation		
	34	02/12	Lattice form, Transpose structure using SFG		
	35	03/12	Realization of FIR filter, Direct form I		
	36	6/12	Cascade form structure for FIR		
	37	7/12	Numericals on filter Realizations		
UNIT V	38	8/12	Classification of filters LP, HP, BF BR, B		
	39	9/12	Intro to FIR & IIR filter, Designing IIR filter steps.		
I ex	40	10/12	Design of IIR filter from Analog filter		
	41	14/12	Analog filters using approx. of derivaties		
	42	15/12	Impulse invariance method, matched z Transform		
	43	16/12	Bilinear Transform warping Effect Numericals		
	44	17/12	Design of FIR filter by windowing Technique Numericals		
	45	18/12	Freq. Samping Technique, Rectangular window meth		
	46	20/12	Triangular Window method, Blackman's window met		

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(2020-2021) ODD W-20

Subject :- OOSAD **Sem:-** VII

Name Of Subject Teacher :- S.I. Saudagar **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1.	17/8/20	Vision Mission, syllabus, CLO	Saud	
2	20/8/20	modeling concept, OOAD introduction	Saud	
3	21/8	object orientation, OO Development	Saud	
4	24/8	OO themes, modeling as design tech.	Saud	
5	27/8	class modeling introduction	Saud	
6	28/8	abstraction, the three models.	Saud	
7	31/8	object and class concepts.	Saud	
8	2/9	Link & association concept.	Saud	
9	3/9	Generⁿ Inheritance, Nägation of class model.	Saud	
II 10	04/09	Advance object & class concepts.	Saud	
11	07/09	Association End, N-ary assoaiⁿ	Saud	
12	09/09	Aggregation, abstract classes.	Saud	
13	10/09	multiple inheritance, metadata	Saud	
14	11/09	reificⁿ constraints, Derived data.	Saud	
15	14/09	packages, state modelling concepts.	Saud	
16	16/09	events, states, trasitions & conditions	Saud	
17	17/09	state diagram & its behaviour.	Saud	
III 18	18/09	Nested states, Nested state diagram	Saud	
19	21/09	signal Generalizatⁿ & example	Saud	
20	23/09	Relation of class & State model	Saud	
21	24/09	use case model, concurrency in execution	Saud	
22	25/09	sequence modeling concept with example	Saud	
23	28/09	Activity modeling concepts with example.	Saud	
24	30/09	special constructs for activity model.	Saud	
25	01/10/20	use case relationship.	Saud	
26	05/10	procedural sequence model with example	Saud	
IV. 27	07/10	Development stages, overview of system design.	Saud	

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	8/10	Development life cycle	Sawal	
29	9/10/20	elaborating concepts, problem st"	Sawal	
30	12/10	overview of analysis	Sawal	
31	14/10	Domain class model	Sawal	
32	15/10	Domain state model	Sawal	
33	16/10	Domain interaction model.	Sawal	
34	21/10	Application analysis, system design	Sawal	
35	28/10	Estimating performance, reuse plan	Sawal	
36	4/11	Breaking system into subsystem.	Sawal	
37	11/11/20	Identifying concurrency, subsystem allo"	Sawal	
38	23/11	management of data storage	Sawal	
39	25/11	Handling global resources.	Sawal	
40	26/11	choosing s/w control strategy	Sawal	
41	27/11	setting trade-off priorities	Sawal	
42	2/12	Handing boundary condition ATM example	Sawal	
43	3/12	Overview of class design : use case	Sawal	
44	4/12	designing algorithm	Sawal	
45	8/12	Recursing downwards, Refactoring	Sawal	
46	9/12	Design optimization, Reification.	Sawal	
47	10/12	Adjustment of Inheritance	Sawal	
48	17/12	Organizing class design.	Sawal	
49	18/12	ATM examples, MCQs on VI	Sawal	
50.	18/12	Revision & MCQs discussion on all units	Sawal	

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Subject :- Object oriented Programming **Sem:-** 3rd

Name Of Subject Teacher :- Dr. Pranjali P. Deshmukh **Section :- A / B**

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
1	18/8/20	Vision mission of Institute and Department PEO & PO and PSO	B	
2	19/8/20	CLO & CO of subject explanation & discussion	B	
3	21/8/20	Introduction to OOPS, need of OOPs	B	
4	25/8/20	Principles of object oriented prog.	B	
5	28/8/20	Procedural Vs OOPS, applications of OOPS	B	
6	29/8/20	Introduction to Java programming	B	
7	2/9/20	Java features and Java virtual machine	B	
8	4/9/20	Java Program structure & explanation	B	
9	8/9/20	Java programming control construct-	B	
10	8/9/20	Java Primitive data types & programs	B	
11	9/9/20	Identifier, Literals, operators	B	
12	11/9/20	Expressions, Precedence Rules & associativity	B	
13	12/9/20	Primitive types conversions & casting	B	
14	15/9/20	Flow of control (if, if else, if-else-if)	B	
15	16/9/20	Flow of control (switch-case while do-while)	B	
16	18/9/20	for, break and continue statements programs	B	
17	19/9/20	Unit-II Introduction to class & object	B	
18	22/9/20	Creating objects and methods	B	
19	23/9/20	more on creating objects and methods	B	
20	25/9/20	Constructors and programs on it	B	
21	26/9/20	cleaning up unused objects	B	
22	28/9/20	Class variables and methods	B	
23	29/9/20	this Keyword	B	
24	30/9/20	Array introduction Single dimension	B	
25	2/10/2020	multidimension array passing array to method	B	
26	3/10/20	command line arguments	B	
27	5/10/20	more programming practice	B	

Unit 1

Unit

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	6/10/20	Unit-III Introduction to inheritance types and Program	B	
29	6/10/20	Inheritance vis Aggregation	B	
30	7/10/20	more programming on types of inheritance	B	
31	9/10/20	Polymorphism, method overloading	B	
32	10/10/20	method overriding	B	
33	13/10/20	super keyword and final keyword	B	
34	14/10/20	Abstract class and Programs	B	
35	16/10/20	Interfaces, multiple inheritance through interface	B	
36	17/10/20	packages and Enumeration	B	
37	19/10/20	Java lang package, Enum type	B	
38	20/10/20	Unit-IV Exception introduction	B	
39	21/10/20	Exception handling techniques & types	B	
40	23/10/20	try-catch, finally, throw & throws	B	
41	24/10/20	User defind exception	B	
42	27/10/20	Exception encapsution & enrichmew-	B	
43	28/10/20	Java.io file class, Reading writing data	B	
44	31/10/20	performing i/o on file using i/o package	B	
45	3/11/20	Unit-V Applet introduction, Applet class	B	
46	4/11/20	Applet structure & applet life cycle	B	
47	7/11/20	Programs with applet, Graphics & Color class	B	
48	24/11/20	paint(), Update, repaint methods	B	
49	25/11/20	getDocumentBase() & getCodeBase() method	B	
50	27/11/20	Unit-VI Introduction to Event handling Java AWT	B	
51	28/11/20	Introduction to component and container Classes & Programs	B	
52	1/12/20	GUI development using AWT	B	
53	2/12/20	Event handling using EventListener	B	
54	4/12/20	Event handling with Button, Label, Checkbox	B	
55	5/12/20	Radio buttons, list boxes, Textfield, Textarea	B	
56	8/12/20	Layouts, menuScrollbar	B	
57	9/12/20	Content beyond Syllabus java.awt.Swing class	B	

Unit3

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(2020-2021) W-20

Subject :- 5FEIT05(i) Introduction to Computer Networks(ICN) **Sem:-** V

Name Of Subject Teacher :- Prof. Shailesh P. Thakare **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
		Unit I		
1)	21/08/20	Introduction to Computer Networks.		
2)	22/08/20	Network topologies, Ethernet LAN		
3)	22/08/20	Assembling a Home Network & office LAN		
4)	28/08/20	Analyzing Computer networks.		
5)	29/08/20	Physical layer Cabling: Twisted Pair, Structured Cabling, UTP Cable.		
6	29/08/20	Terminating CAT6/5E/5UTP Cables		
		Unit II		
7	04/09/20	Computer fundamentals		
8	05/09/20	Computer bus Connection		
9	05/09/20	Device Drivers		
10	11/09/20	Computer memory		
11	12/09/20	overview of FAT & NTFS		
12	12/09/20	Configuring the BIOS boot sequence		
		Unit III		
13	18/09/20	InterConnecting the LAN		
14	19/09/20	OSI Model		
15	19/09/20	Network Bridge		
16	25/09/20	Switch, Router		
17	26/09/20	InterConnecting LAN with the Router		
18	26/09/20	Configuring the network Interface - Auto negotiation		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
19	02/10/20	TCP/IP Layers		
20	03/10/20	Number Conversions		
21	03/10/20	IPV4 Addressing		
22	09/10/20	Subnet masks, CIDR Blocks		
23	10/10/20	IPV6 Addressing		
24	10/10/20	Analyzing Computer N/w - FTP data pkts.		
		Unit V		
25	16/10/20	Router Configuration, Introduction		
26	17/10/20	Router fundaments		
27	17/10/20	The Console Port Connection		
28	23/10/20	The EXEC mode, Privileged EXEC mode		
29	24/10/20	Troubleshooting the router Interface		
30	24/10/20	——//——		
		Unit VI		
31	30/10/20	Routing Protocols: Static routing		
32	31/10/20	Dynamic Routing Protocols		
33	31/10/20	RIP, IGRP, OSPF		
34	06/11/20	——//——		
35	07/11/20	EIGRP, TFTP		
36	07/11/20	Analyzing OSPF 'hello' Packet.		

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(2020-2021) w-20

Subject :- Digital Integrated Circuits **Sem:-** V

Name Of Subject Teacher :- Prof. R. P. Jaike **Section :-** A / ~~B~~

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
I	1	17-8-20	Vision, Mission, Boolean Algebra	RPJ	
	2	18-8-20	Boolean Algebra, function, logic families	RPJ	
	3	19-8-20	Standerd form.	RPJ	
	4	20-8-20	Logic gates.	RPJ	
	5	21-8-20	Special Characteristics	RPJ	
	6	24-8-20	Transistor —"—	RPJ	
	7	25-8-20	TTL, ECL	RPJ	
	8	27-8-20	Basic characteristics	RPJ	
	9	28-8-20	Operation & typical —"—	RPJ	
II	10	31-8-20	K-map two & three variable	RPJ	
	11	2-9-20	four variable K-map	RPJ	
	12	3-9-20	five —"—	RPJ	
	13	4-9-20	Examples of K-map	RPJ	
	14	7-9-20	Implementation using logic gates	RPJ	
	15	8-9-20	Tabulation Method	RPJ	
	16	9-9-20	—"—	RPJ	
	17	10-9-20	Prime implicants	RPJ	
	18	11-9-20	Selection of prime implicants	RPJ	
III	19	14-9-20	Combinational logic	RPJ	
	20	15-9-20	~~Degi~~. Design Procedure	RPJ	
	21	16-9-20	Adder	RPJ	
	22	18-9-20	Substractor	RPJ	
	23	21-9-20	Code Converter	RPJ	
	24	22-9-20	—"—	RPJ	
	25	23-9-20	Combinational logic Ckt	RPJ	
	26	24-9-20	Multilevel NAND Ckt	RPJ	
	27	25-9-20	—"— NOR Ckt	RPJ	

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
29	28-9-20	Exclusive OR function		
29	29-9-20	Parity generation & checker		
30	30-9-20	MSI & PLD		
31	1-10-20	Binary Parallel Adder		
32	5-10-20	Binary Adder Substractor		
33	6-10-20	Decimal —"—		
34	7-10-20	BCD —"—		
35	8-10-20	Magnitude Comparator		
36	9-10-20	2 bit comparator		
37	12-10-20	Decoder, Encoder		
38	13-10-20	ROM & its types.		
39	14-10-20	Programmable Logic Array		
40	19-10-20	Synchronous Sequencial ckt		
41	20-10-20	Flip flop		
42	21-10-20	SR, JK fiplop		
43	22-10-20	D & T —"—		
44	23-10-20	Triggring —"—		
45	26-10-20	Clocked sequential ckt		
46	27-10-20	State Reduction & Assignment		
47	28-10-20	Excitation table		
48	29-10-20	Design Procedure for Sequential ckt		
49	1-11-20	Counters Ripple		
50	2-11-20	Asynchronous Counters		
51	3-11-20	Synchronous Counters		
52	4-11-20	Shift Registers		
53	5-11-20	Types —"—		
54	23-11-20	Static & Dynamic RAM		
55	24-11-20	Algorithmic state machine		
56	25-11-20	—"—		
57	26-11-20	Flow diagrams		
58	1-12-20	—"—		
59	2-12-20	Improvement classes		
60	3-12-20	—"—		

IV

V

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Subject :- Distributed Database Systems. W-2021 **Sem:-** VII th

Name Of Subject Teacher :- Nikita V Kadam **Section :- A / B**

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
Unit: I	1.	18.08.21	Introduction to DDBS		
	2.	19.8.21	Introduction Continued		
	3.	20.8.21	Promises of DDBS, Problem area		
	4.	21.8.21	overview of Relational DBMs		
	5.	25.8.21	Normalization. Integrity Rules		
	6.	26.8.21	Review of Computer network		
	7	27.8.21	Data Communication		
	8	28.8.21	Types of network protocal		
	9	29.8.21	Protocal Standard		
	10	1.09.21	Revision		
Unit: II	11	2.9.21	Overview of Query processing		
	12	3.9.21	overview continued		
	13	4.9.21	Optimization Timing		
	14	8.9.21	characteristics of query processing		
	15	9.9.21	Layers of query processing		
	16	10.9.21	Data Localization		
	17	11.9.21	Revision.		
Unit: III	18	15.9.21	Tranzaction Management		
	19	16.9.21	Properties of tranzaction		
	20	17.9.21	Types of Transaction		
	21	18.9.21	Serialization, Taxonamy		
	22	22.9.21	Locking based Concurrency algm		
	23	23.9.21	2PL, Strict 2PL		
	24	24.9.21	Deadlock management		
	25	25.9.21	continued..		
	26	1.10.21	Revision.		
Unit IV	27	2.10.21	Distributed DBMs reliability		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28	3.12.21	System State		
29	4.12.21	Failures & fault tolerance		
30	8.12.21	Failures in DDBMs		
31	9.12.21	Local Reliability protocals		
32	10.12.21	Execution of LRM		
33	11.12.21	Handling media failures		
34	15.12.21	Dealing with Site failures		
35	16.12.21	3 Phase commit protocal		
36	17.12.21	Revision.		
Unit: V 37	18.12.21	Distributed object DBMs		
38	22.12.21	Partitioning algm		
39	23.12.21	Architecture of ODBMs		
40	24.12.21	Current issues		
41	25.12.21	Data Ware housing		
42	29.12.21	WWW		
43	30.12.21	Mobile Databases		
44	31.3.21	Revision.		
Unit: VI 45	1.1.21	Distributed DBMs architecture		
46	5.1.21	Features		
47	6.1.21	DBMs Standardization		
48	7.1.21	Architectural Models		
49	8.1.21	Distributed DBMs architecture		
50	12.1.21	Distributed db design strategies		
51	13.1.21	Top down, bottom up design		
52	14.1.21	Distributed Design issues		
53	15.1.21	Fragmentation		
54	19.1.21	Allocation Semantic data control		
55	20.1.21	View Management		
56	21.1.21	Data Security		
57	22.1.21	Semantic Integrity Control		
58	26.1.21	Revision		

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Subject :- RTES **Sem:-** VII

Name Of Subject Teacher :- A.A. Gulhane **Section :-** A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
1	17-08-2020	Discussion of Vision, Mission, CLO, PEO, Syllabus Attributes, Objective of Subject			T
2.	19-08-020	Introduction to Embedded Systems			U
3.	20-08-020	Processor in the system, types of Processor.			N
4.	21-08-020	H/w units required in the exemplary cases.			I
5.	24-08-020	S/w embedded into a system. Final machine implementable s/w for a Product			T
6.	25-08-020	S/w in processor specific ALP			I
7.	27.08.020	Device drivers & management in OS.			
8.	28.08.020	S/w design for scheduling multiple tasks & devices using RTOS			
9.	31-08-020	SOC & VLSI.			
10	03-09-020	Structural units of processor			T
11	04-09-020	Allocation of memory to program segment & blocks.			U
12	07-09-020	Memory map of the system			N
13	08-09-020	Memory blocks for different data sets & structures			I
14	10-09-020	I2C, CAN & advanced I/O buses			T
15	11-09-020	Device drivers, Virtual Devices			II
16	14-09-020	Device drivers for parallel port, serial & timing devices			
17.	15.09.020	Context switching, deadline & interrupt latency			

Sr. No.	Date	Topics to be Covered	Sign. of Faculty	Sign. HOD
[illegible]	[illegible]	Programming of ALP & C		
[illegible]	[illegible]	Program Elements		
[illegible]	[illegible]	Use of DS function pointers, queues & ISR queues		
[illegible]	[illegible]	Pointers to a Node, Queuing of functions on interrupts		
[illegible]	[illegible]	Use of FIFO queues stacks		
[illegible]	[illegible]	Lists & Ordered lists		
[illegible]	[illegible]	Embedded Programming in C++		
[illegible]	01-10-2020	Embedded Programming in Java		
[illegible]	05-10-2020	Modelling Process. Use of DFG & CDFG		
[illegible]	08-10-2020	Event controlled or response time		
[illegible]	13-10-2020	FSM. Real time programs.		
[illegible]	[illegible]-10-2020	FSM for timer & C-function		
[illegible]	19-10-2020	Petri net Model		
[illegible]	20-10-2020	Modelling of Multiprocessor Systems		
[illegible]	22-10-2020	IPC & Synchronization		
[illegible]	23-10-2020	Use of Semaphores for a task or for critical section of code		
[illegible]	03-11-2020	Mutex & P&V semaphores		
[illegible]	05-11-2020	Priority inversion problems & deadlock situations		
[illegible]	06-11-2020	IPC issues		
[illegible]	23-11-2020	Use of Mutex as resource key		
38	24-11-2020	Use of message queues.		
[illegible]	26-11-2020	Mailboxes, Pipes		
40	[illegible]-11-2020	Virtual sockets, RPCs.		
[illegible]	03-12-2020	Intro to RTOS OS services		
42	04-12-2020	Multiple tasks in Real time		
43	07-12-2020	RTOS task scheduling, Round Robin		
[illegible]	08-12-2020	Using an Ordered list as per precedence constraints		

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Subject :- RTES

Name Of Subject Teacher :- A. A. Gulhane

Sem:- VII

Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
45	10.12.020	Preemptive scheduling, Critical section service by preemptive		
46	11.12.020	Fixed Real time scheduling, Precedence assignment in scheduling algorithms.		
47.	14.12.020	Cycling scheduling in time slicing		
48.	15.12.020	Performance metrics, IEEE standard POSIX 1033.1B		
49.	17.12.020	Fifteen point strategy for synchronization		
50	18.12.020	Embedded Linux Kernel.		

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DSP VII

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Subject :- DSP. Sem:- VII.

Name Of Subject Teacher :- S. V. Dhopte Section :- A / B

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD	
1	18/8/21	DSP DSP System			I
2	19/8	Sampling, Nyquist theorem			
3	20/8	Quantization, Advantages, App. DSP			
4	21/8	system & ASP sys.			
5	25/8	Discrete signal Modified signal			
6	27/8	Impulse & unit step signal			
7	28/8	Static Dynamic, TV & TIV sys.			
8	2/9	Linear/Nonlinear, stable/unstable			
9	3/9	Numerical, Aliasing effect.			
10	4/9	Analysis of LTI sys. Convolution sum			II
11	8/9	Analytical Methods Tabular method			
12	8/9	Properties of Convolution.			
13	9/9	Analysis of LTI using Difference eqn			
14	10/9	Zero I/p & Zero state Response			
15	11/9	Homogenous solution			
16	15/9	Particular Solution. Total Soln.			
17	16/9	Cross and Auto correlation.			
18	18/9	Z-Transform			III
19	22/9	ROC Properties: Linearity			
20	23/9	Time Reversal, Time shifting			
21	24/9	Convolution prop: Diff or Multi in Time.			
22	25/9	Pole-Zero plot			
23	27/9	IZT, Power series Method,			
24	30/9	Partial fraction expansion.			
25	1/10	Residue Method.			
26	1/10	Steady State Response			
27	6/10	Schur Cohn Stability Test-			

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
IV 28	7/10	Fourier Series, DFT		IV
29	8/10	Numerical of DFT		
30	9/10	N-point DFT 4 & 8 points		
31	11/10	Plot Magnitude & phase spectrum		
32	13/10	Twiddle factor		
33	14/10	N-8 N-4 DIT FFT algorithm		
34	16/10	N-8-N-4 DFT FFT algorithm		
35	16/10	Properties of FFT		
VI 36	20/10	Realization of IIR Filter		VI
37	21/10	Direct I, Direct II form		
38	22/10	Cascade form Lattice form		
39	23/10	Realization of FIR Filter		
40	27/10	Cascade, Direct form		
41	28/10	Frequency sampling, phase array.		
V 42	29/10	Design of IIR filter		VI
43	29/10	Impulse Invariant Method		
44	3/11	Match 'Z' Transform, Approxima.		
45	4/11	tion by Derivative methods		
46	5/11	Bilinear Transformation		
47	6/11	Warping effect		
48	24/11	Design of FIR Methods		
49	25/11	Fourier series and windowing		
50	26/11	Technique		

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Subject :- Computer Architecture & Organization **Sem:-** V
Name Of Subject Teacher :- Prof. A.W. Burange **Section :-** A / B

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
Unit I	1.	17/8/20	Introduction to basic Structure of Comp.		
	2	18/8/20	Basic Structure of computer		
	3	19/8/20	Addressing modes		
	4	20/8/20	Program Sequencing		
	5	21/8/20	Concept of memory locations & Address		
	6	24/8/20	Main memory operation		
	7	25/8/20	Instructions & instruction Sequencing		
	8	27/8/20	Addressing modes with example		
	9	28/8/20	Basic I/O operations, Queues & Subroutine		
	10.	31/8/20	Introduction to processing Unit		
	11.	1/9/20	Execution of complete instruction		
	12.	2/9/20	Hardwired Control		
Unit II	13	3/9/20	Performance Consideration		
	14	4/9/20	Microprogrammed Control		
	15	7/9/20	Microinstructions, microprogram leq.		
	16	9/9/20	Microinstruction Prefetching		
	17	10/9/20	Emulation.		
	18	11/9/20	Introduction to I/O Organization		
	19	14/9/20	Accessing I/O Devices		
	20	15/9/20	Study of interrupts		
	21	16/9/20	DMA : Bus Arbitration		
Unit II	22	18/9/20	I/O hardware introduction		
	23	21/9/20	Processor bus & interfacing Circuits		
	24	22/9/20	Std. I/O interfaces fundamentals		
	25	23/9/20	SCSI bus		
	26	24/9/20	backplane bus standard		

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
Unit IV	27.	25/9/20	Memory Unit, basic Concepts		
	28.	28/9/20	Semiconductor RAM memories		
	29.	29/9/20	Ip Security Architecture		
	30.	30/9/20	Web Security		
	31.	1/10/20	internal organization of memory		
	32.	5/10/20	Static & Dynamic RAMs, ROMs		
	33.	6/10/20	Speed, Size & Cost Consideration		
	34.	7/10/20	Cache memories, introduction		
	35.	8/10/20	Virtual memories		
	36.	9/10/20	memory management requirements		
Unit V	37.	19/10/20	Arithmetic number representation		
	38	20/10/20	number System with ex.		
	39.	21/10/20	design of fast Adders		
	40.	22/10/20	Sign addition & Subtraction		
	41.	23/10/20	Multiplication of positive numbers		
	42.	26/10/20	Booth's Algorithm		
	43.	27/10/20	Integer division		
	44.	28/10/20	Floating point numbers		
Unit VI	45.	29/10/20	Introduction to Computer Peripherals		
	46.	2/11/20	Computer peripherals introduction		
	47.	3/11/20	graphics input devices		
	48	4/11/20	Online Storage devices		
	49.	5/11/20	Magnetic disks operation		
	50	6/11/20	Magnetic tape systems, CD-ROM, Comm. devices: modems		

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Execution Plan

(2020-2021) WINTER-2020

Subject :- Analog & Digital Electronics (31T05) **Sem:-** III

Name Of Subject Teacher :- Prof. A. G. Mahalle **Section :-** A / ~~B~~

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
01	18/08/20	Vision & Mission of Institute & Dept. Graduate Attributes, COs & CLOs, Syllabus		
02	20/08/20	Semiconductor Basics		
03	25/08/20	Transistors Basics		
04	27/08/20	Transistor as an Amplifier		
05	29/08/20	Need of Biasing		
06	02/09/20	Potential divider bias circuit		
07	03/09/20	Faithful amplification of CE Amplifier		
08	05/09/20	Transistor as an Electronic switch		
09	08/09/20	Construction & Working of JFET		
10	09/09/20	UNIT II : Basics of Operational Amplifier		
11	10/09/20	Block diagram of op amp		
12	12/09/20	Ideal op-amp parameters		
13	15/09/20	Inverting amplifier		
14	16/09/20	Non-inverting amplifier, Voltage follower		
15	19/09/20	Summing Amplifier		
16	19/09/20	Subtractor		
17	22/09/20	Comparator		
18	23/09/20	UNIT III Basics of Oscillator, Barkhausen Criteria		
19	24/09/20	RC Phase Shift Oscillator		
20	26/09/20	Transistor Crystal oscillator		
21	29/09/20	Block diagram of Timer IC 555		
22	30/09/20	Astable Multivibrator		
23	01/10/20	Monostable Multivibrator		
24	03/10/20	Solved Problems		
25	06/10/20	UNIT IV Various logic gates & study of truth tables		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
26	07/10/20	Standard logic expression forms: SOP & POS		
27	08/10/20	Logic expression realization and minimization using K-map		
28	10/10/20	Two variables K-map		
29	13/10/20	Three variable K-map		
30	14/10/20	Four variable K-map		
31	15/10/20	Adder circuits: Full & Half Fadder		
32	17/10/20	Subtrator circuits: Full & half subtrator		
		UNIT V:		
33	20/10/20	Difference between combinational & seq. circuit		
34	21/10/20	Code converters (BCD, Excess-3 and Gray)		
35	22/10/20	Multiplyers		
36	24/10/20	De-multiplyers		
37	03/11/20	Decoders		
38	04/11/20	SR flip flop		
39	05/11/20	JK flip-flop		
40	07/11/20	D ff and T ff		
		UNIT VI		
41	24/11/20	Difference between asynchronous and synchronous sequential circuits		
42	28/11/20	Asynchronous counters		
43	02/12/20	Up-counter		
44	03/12/20	Down-counter		
45	05/12/20	Mod counter		
46	08/12/20	Working of Shift Registers, SISO		
47	10/12/20	SIPO, PISO and PIPO		
48	12/12/20	Application of Shift Registeras a Ring counter.		

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Subject :- Object Oriented System Analysis & Design (75102) **Sem:-** 7th
Name Of Subject Teacher :- P. R. Nerkar **Section :-** A / B

	Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
	1	18-08-20	Vision and mission, Objective, CO, Gradewall.		
	2.	20-08-20	Modeling Concept : Introduction, Object orientation		
	3.	21-08-20	oo Development, oo themes		
	4.	24-08-20	modeling as a design technique.		
unit I	5.	25-08-20	Class modeling.		
	6.	27-08-20	Abstraction, the three models.		
	7.	28-08-20	Object and class Concepts		
	8.	02-09-20	Link and association Concepts		
	9.	03-09-20	Generalization & Inheritance.		
	10.	04-09-20	Navigation of Class models.		
	11.	08-09-20	Advanced object and class Concepts:		
	12.	09-09-20	Association Ends, N-ary association.		
unit II	13.	10-09-20	Aggregation, Abstract Classes.		
	14.	11-09-20	Multiple Inheritances, metadata, Reification		
	15.	15-09-20	Constraints, Derived data, Packages.		
	16.	22-09-20	State modeling : Events.		
	17.	23-09-20	States, Transitions and Conditions		
	18.	24-09-20	State diagrams, State diagram behavior.		
	19	29-09-20	Nested state diagram: signal generation, Nested		
	20.	30-09-20	Concurrency.		
	21	01-10-20	Relation of class and state models.		
nit III	22.	06-10-20	Use case model.		
	23	07-10-20	Sequence models		
	24.	08-10-20	Activity models, Use case relationship		
	25.	09-10-20	Procedural sequence model.		
	26.	12-10-20	Special Construct for activity models.		
	27.	13-10-20	Sequence Models.		

Sr. No.	Date	Topics to be Covered	Sign of Faculty	Sign of HOD
28.	14-10-20	Development stages		
29.	15-10-20	Development life cycle		
30.	16-10-20	Devising a system concepts,		
31.	20-10-20	Elaborating a concepts		
32.	21-10-20	Preparing a problem statements.		
33.	22-10-20	Overview of analysis, Domain class models		
34.	23-10-20	Domain state model		
35.	03-11-20	Domain interaction model		
36.	04-11-20	Application analysis		
37.	05-11-20	Overview of system Design, Estimating Performance		
38.	06-11-20	Making a reuse plan,		
39.	24-11-20	Breaking a system into subsystems.		
40	25-11-20	Identifying Concurrency,		
41.	26-11-20	Allocation of subsystems.		
42.	27-11-20	Handling global resources		
43.	02-12-20	Choosing a H/W control strategy.		
44.	03-12-20	Handling boundary conditions.		
45.	04-12-20	Architecture of the ATM system.		
46.	08-12-20	Overview of class design:		
47.	09-12-20	Realizing the use cases, Designing algorithm		
48.	10-12-20	Recursing downwards, Refactoring,		
49.	11-12-20	Reification of behavior, Adjustment of inheritance		
50.	12-12-20	organizing a class design		

unit IV

unit V

unit VI

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Prof. Ram Meghe Institute of Technology & Research, Bad
Department of Information Technology
Teaching Plan (Session 2020-21)

II nd Year

Course Number and Title: - 4IT01 Operating Systems

Name of Faculty: - Prof. Umesh V. Nikam

Semester: - 4th

Section: - A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	1/02/2021	**Introduction:** Operating System(OS) definition,	**13hrs**
2	2/02/2021	OS Evolutions Component	
3	3/02/2021	OS Services.	
4	5/02/2021	Process Concept,	
5	6/02/2021	Process Scheduling,	
6	8/02/2021	Operations on Processes	
7	9/02/2021	Cooperating Processes	
8	10/02/2021	Inter-process Communication	
9	12/02/2021	Inter-process Communication	
10	13/02/2021	Threads Overview	
11	15/02/2021	Multithreading Models	
12	16/02/2021	Threading Issues,.	
13	17/02/2021	Java Threads	
		UNIT-II	
14	20/02/2021	CPU Scheduling Concepts,	**13hrs**
15	22/02/2021	Scheduling Criteria and Algorithms	
16	23/02/2021	Scheduling Criteria and Algorithms	
17	24/02/2021	Scheduling Criteria and Algorithms	
18	26/02/2021	Scheduling Criteria and Algorithms	
19	27/02/2021	Process Synchronization:	
20	01/03/2021	The Critical-Section Problem	
21	02/03/2021	Synchronization Hardware	
22	03/03/2021	Semaphores, Monitors	
23	05/03/2021	Deadlocks: Definition & Characterization	
24	06/03/2021	Deadlocks Prevention	
25	08/03/2021	Avoidance	
26	09/03/2021	Detection and Recovery from Deadlock.	
		UNIT III	
27	10/03/2021	Memory Management Background	**11hrs**
28	12/03/2021	Swapping	
29	13/03/2021	Contiguous Memory Allocation Schemes	
30	03/08/2018	Paging,	
31	15/03/2021	Segmentation	
32	16/03/2021	Virtual Memory Management: Background	
33	17/03/2021	Demand Paging scheme	

34	19/03/2021	Process Creation	
35	20/03/2021	Page Replacement Policies	
36	22/03/2021	Allocation of Frames	
37	23/03/2021	Thrashing.	
		UNIT-IV	
38	24/03/2021	File-System Interface;	**10hrs**
39	26/03/2021	Directory Structure	
40	27/03/2021	File-System Mounting	
41	30/03/2021	File Sharing & Protection.	
42	31/03/2021	File- System Structure	
43	03/04/2021	File-System Implementation	
44	05/04/2021	Directory Implementation	
45	06/04/2021	Allocation Methods	
46	07/04/2021	Free-Space Management	
47	09/04/2021	File Recovery	
		UNIT-V	
48	10/04/2021	I/O Systems: Overview	**8hrs**
49	12/04/2021	I/O Hardware	
50	16/04/2021	Application I/O Interface	
51	17/04/2021	Kernel I/O Subsystem	
52	19/04/2021	Transforming I/O to Hardware Operations	
53	20/04/2021	Disk Scheduling, Disk Management	
54	23/04/2021	Swap-Space Management	
55	24/04/2021	RAID Structure.	
		UNIT-VI	
56	30/04/2021	The Linux System; History	**7hrs**
57	03/05/2021	Design Principles	
58	04/05/2021	Kernel Modules, Process Management,	
59	05/05/2021	Scheduling, Memory Management	
60	07/05/2021	File Systems, Input and Output	
61	08/05/2021	Inter-process Communication,	
62	10/05/2021	Network Structure & Security in Linux	
63	11/05/2021	Content Beyond Syllabus GATE Questions Discussion	
64	12/05/2021	Content Beyond Syllabus GATE Questions Discussion	
65	15/05/2021	Content Beyond Syllabus GATE Questions Discussion	

Faculty: - Prof. Umesh V. Nikam

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Department of Information Technology

Lesson Plan (Session 2020-21)

Course Number and Title: - Data Communication and Networking (4IT02)

Name of Faculty: - Prof. H. D. Misalkar

Semester: -IV **Section: -** A

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1.	01-02-2021	Types of Network; Network Topologies	
2.	02-02-2021	OSI Vs TCP\IP Model	7
3.	04-02-2021	Network Devices: Bridge, Switch, Router;	
4.	05-02-2021	Transmission Medium: Guided media, Unguided media;	
5.	08-02-2021	Time and Frequency Domain,	
6.	09-02-2021	Types of Signals: Analog, Digital, Composite,	
7.	11-02-2021	Periodic, Aperiodic Signal.	
		Unit-2	
8.	12-02-2021	Data conversions: Digital-to-Digital	7
9.	15-02-2021	Analog-to-Digital	
10.	16-02-2021	Digital-to-Analog; Configuring DTE-DCE Interface	
11.	18-02-2021	Manchester and Differential Manchester encoding	
12.	22-02-2021	Shannon Capacity; Multiplexing: FDM	
13.	23-02-2021	WDM, TDM;	
14.	25-02-2021	Multiplexing Application: Mobile Telephone System	
		Unit-3	
15.	26-02-2021	Data Link Layer	8
16.	01-03-2021	Design Issues: Services to Network Layer	
17.	02-03-2021	Framing, Flow control	
18.	04-03-2021	Error Control: Parity Bits	
19.	05-03-2021	Hamming Code, Cyclic Redundancy Check (CRC)	
20.	08-03-2021	Data Link Protocols: Synchronous	
21.	09-03-2021	Asynchronous Protocols, CSMA/CD,	
22.	12-03-2021	WAN Connectivity Protocols: PPP and HDLC	

23.	15-03-2021	**Unit-4** Addressing and Routing Switching Techniques	
24.	16-03-2021	IPv4 Addressing Scheme	
25.	18-03-2021	IPv6 addressing Overview	
26.	19-03-2021	Subnetting	
27.	22-03-2021	Evaluating Network Address by router	7
28.	23-03-2021	Distance Vector, Link State	
29.	25-03-2021	Ethernet Networks: Token Ring, FDDI.	
		Unit-5	
30.	26-03-2021	Networking and Services Transport Layer Services	
31.	30-03-2021	TCP Protocols	
32.	01-03-2021	UDP Protocols	
33.	02-03-2021	TCP Segment, TCP Connection	7
34.	05-04-2021	Upper OSI Layers: Session Layer	
35.	06-04-2021	Presentation Layer	
36.	08-04-2021	Application Layer functions and services.	
		Unit-6	
37.	09-04-2021	Network Design and Applications	
38.	12-04-2021	Network Layout	
39.	15-04-2021	Network Design Metrics	
40.	16-04-2021	Network design traceability	
41.	19-04-2021	WWW, DNS	8
42.	20-04-2021	Voice over IP	
43.	22-04-2021	Introduction and Comparison of mobile network system	
44.	23-04-2021	applications: 2G, 3G, 4G.	
45.	26-04-2021	Telephone Nework	**Content Beyond Syllabus**
46.	27-05-2021	Dial-Up Modems	
47.	29-05-2021	Digital Subscriber Line	
48.	30-05-2021	Cable TV Networks	

Faculty: - Prof. H. D. Misalkar

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Data Structure (4IT04)
Name of Faculty: - Prof. P. P. Deshmukh
Semester :- IV **Section :-** B

Lecture No.	Planned Dates	Topic Name	Total Hours
		Unit –I	
1	1/2/2021	Discussion on Vision , Mission of College & department , CLO & CO of Subject	**11**
2	2/2/2021	Introduction to subject and Syllabus	
3	4/2/2021	Introduction to Data, Data Structures and their types	
4	5/2/2021	Algorithm and their Complexity	
5	6/2/2021	Algorithm and their Complexity with some examples	
6	8/2/2021	String processing operations	
7	9/2/2021	First Pattern Matching Algorithm, Complexity & Example	
8	11/2/2021	Second Pattern Algorithm, Complexity and Example	
9	12/2/2021	Array: Types of array, memory representation of array	
10	13/2/2021	Algorithm and operations on Array: traversing, searching	
11	15/2/2021	Array algorithms Insertion, deletion, Applications of array	
12	16/2/2021	Introduction to Linear Data Structure Linked List (LL)	**10**
13	18/2/2021	Linked List: Features, Representation of Linked List in memory using array	
14	20/2/2021	Types of Linked list and memory representation	
15	22/2/2021	Algorithm traversing on Linked List and example , complexity	
16	23/2/2021	Algorithms on Insertion on Linked List and example , complexity	
17	25/2/2021	Algorithms on Insertion on Linked List and example , complexity	
18	26/2/2021	Algorithms on Deletion on Linked List and example , complexity	
19	27/2/2021	Algorithm searching in linked list and examples, complexity	
20	1/3/2021	Doubly linked list and representation in memory	
21	2/3/2021	Algorithms on Doubly linked lists and complexity	
23	4/3/2021	Introduction to Stack ,Definition, Memory representation of Stacks using array and Linked List	**10**
24	5/3/2021	Operations on to Stack: Push and Pop using array	
25	6/3/2021	Push and Pop using linked list	
26	8/3/2021	Stack Applications: Recursion	
27	9/3/2021	Solve arithmetic expressions ,polish notation	
28	12/3/2021	Infix to postfix using stack	
29	13/3/2021	Tower of Hanoi problem	
30	15/3/2021	Queue: Definition, Memory representation of Queue using array and Linked List	

31	16/3/2021	Types of queue, Operations on queues: Traversing	
32	18/3/2021	Insertion, Deletion, Searching. Applications	
32	19/3/2021	Introduction to Sorting, Sorting Methods and its Algorithms	9
33	20/3/2021	Simple Sorting Algorithm	
34	22/3/2021	Bubble Sort algorithm , example and complexity	
35	23/3/2021	Quick sort algorithm , example and complexity	
36	25/3/2021	Insertion sort algorithm , example and complexity	
37	26/3/2021	Heap sort algorithm , example and complexity	
38	27/3/2021	Merge sort , merging example and complexity	
39	30/3/2021	Bucket sort example and complexity	
40	1/4/2021	Application of sorting algorithm	
41	3/4/2021	Introduction to Non-Linear Data Structure, Tree	9
42	5/4/2021	Trees: Terminology, Types of tree , Binary trees and their representation in memory	
43	6/4/2021	Traversing in binary trees using stacks	
44	8/4/2021	Binary Search Trees, searching, inserting and deleting nodes in binary trees	
45	9/4/2021	Heap tree	
46	10/4/2021	Path length & Huffman's algorithm	
47	12/4/2021	Spanning Trees	
48	15/4/2021	Basic concepts of Kruskal's and Prim's Algorithm	
49	16/4/2021	B+ tree	
50	17/4/2021	Non-Linear Data Structure: Graph Graph: Definitions	8
51	19/4/2021	Sequential and Linked-list representation of Graphs	
52	20/4/2021	Warshalls' algorithm	
53	22/4/2021	Bridges in graph, Johnsons algorithm	
54	23/4/2021	Graph Traversals: Breadth First Search	
55	24/4/2021	Depth First Search, Topological Sort	
56	29/4/2021	Shortest Path Algorithms: Unweighted Shortest Paths	
57	30/4/2021	Basic concepts of Dijkstra's Algorithm	

Subject Teacher
Dr. Pranjali Deshmukh

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan: Session 2020-21

Course Name & Code: Social Sciences & Engineering Economics [4IT05]
Name of Faculty: Prof. Avinash G. Mahalle
Year & Semester: Second Year IV [A]

Lecture No.	Planned Dates	Topics to be covered	Total Hours
1	01-02-2021	Vision & Mission of Institute, Vision & Mission of Dept. Graduate Attributes, COs & CLOs, Grading Scheme, Text books & reference books, Syllabus	01
		UNIT-1	08
2	03-02-2021	Basics of Social Science	
3	05-02-2021	Importance of study of social science to Engineer	
4	06-02-2021	Constitution of India	
5	08-02-2021	Salient features of Indian constitution	
6	10-02-2021	Fundamental Rights	
7	12-02-2021	Fundamental Duties	
8	13-02-2021	Directive Principles of State Policy	
9	15-02-2021	Difference between Fundamental Rights & DPSP	
		UNIT-2	08
10	17-02-2021	Indian Parliament	
11	20-02-2021	Composition of Indian Parliament	
12	22-02-2021	Powers of Indian Parliament	
13	24-02-2021	President of India	
14	26-02-2021	Powers of the President	
15	27-02-2021	Prime Minister: Powers & Functions	
16	01-03-2021	Council of Ministers	
17	03-03-2021	Difference between Cabinet & Council of Ministers	
		UNIT-3	08
18	05-03-2021	Culture & its characteristics	
19	06-03-2021	Civilization & its characteristics	
20	08-03-2021	Impact of science & technology on culture & civilization	
21	10-03-2021	Society & its characteristics	
22	12-03-2021	Community & its characteristics	
23	13-03-2021	Group & types of groups	
24	15-03-2021	Marriage: Functions, Types & Problems	
25	17-03-2021	Family: Functions, Types & Problems	

Lecture No.	Planned Dates	Topic to be covered	Total Hours
		UNIT-4	
26	19-03-2021	Meaning of Production	09
27	20-03-2021	Factors of production [Land, Labour]	
28	22-03-2021	Factors of production [Capital, Organization]	
29	24-03-2021	Laws of Returns	
30	26-03-2021	Forms of Business Organization: Individual Enterprise	
31	27-03-2021	Partnership, Joint Stock Company	
32	31-03-2021	Comparison of Joint-stock Company & Partnership	
33	03-04-2021	Co-operative organization	
34	05-04-2021	Public Enterprise	
		UNIT-5	
35	07-04-2021	Banking & its types	08
36	09-04-2021	Functions of Central Banks	
37	10-04-2021	Functions of Commercial Banks	
38	12-04-2021	Comparison between Central & Commercial Bank	
39	16-04-2021	Introduction to GST	
40	17-04-2021	Market Forms	
41	19-04-2021	Perfect & Imperfect Competition	
42	21-04-2021	Monopoly	
		UNIT-6	
43	23-04-2021	Definitions of Economics	08
44	24-04-2021	Nature of Economics	
45	30-04-2021	Scope of Economics	
46	03-05-2021	Special significance of Economics to Engineers	
47	05-05-2021	Economics of Development	
48	07-05-2021	Characteristics of under development	
49	08-05-2021	Obstacles to Economic growth	
50	10-05-2021	Vicious circle of poverty	
		Total Lectures Planned	**50**

Prof. A. G. Mahalle

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan: Session 2020-21

Course Name & Code: Social Sciences & Engineering Economics [4IT05]
Name of Faculty: Prof. Avinash G. Mahalle
Year & Semester: Second Year IV [B]

Lecture No.	Planned Dates	Topics to be covered	Total Hours
1	01-02-2021	Vision & Mission of Institute, Vision & Mission of Dept. Graduate Attributes, COs & CLOs, Grading Scheme, Text books & reference books, Syllabus	01
		UNIT-1	
2	02-02-2021	Basics of Social Science	08
3	03-02-2021	Importance of study of social science to Engineer	
4	06-02-2021	Constitution of India	
5	08-02-2021	Salient features of Indian constitution	
6	09-02-2021	Fundamental Rights	
7	10-02-2021	Fundamental Duties	
8	13-02-2021	Directive Principles of State Policy	
9	15-02-2021	Difference between Fundamental Rights & DPSP	
		UNIT-2	
10	16-02-2021	Indian Parliament	08
11	17-02-2021	Composition of Indian Parliament	
12	20-02-2021	Powers of Indian Parliament	
13	22-02-2021	President of India	
14	23-02-2021	Powers of the President	
15	24-02-2021	Prime Minister: Powers & Functions	
16	27-02-2021	Council of Ministers	
17	01-03-2021	Difference between Cabinet & Council of Ministers	
		UNIT-3	
18	02-03-2021	Culture & its characteristics	08
19	03-03-2021	Civilization & its characteristics	
20	06-03-2021	Impact of science & technology on culture & civilization	
21	08-03-2021	Society & its characteristics	
22	09-03-2021	Community & its characteristics	
23	10-03-2021	Group & types of groups	
24	13-03-2021	Marriage: Functions, Types & Problems	
25	15-03-2021	Family: Functions, Types & Problems	

Lecture No.	Planned Dates	Topic to be covered	Total Hours
		UNIT-4	
26	16-03-2021	Meaning of Production	09
27	17-03-2021	Factors of production [Land, Labour]	
28	20-03-2021	Factors of production [Capital, Organization]	
29	22-03-2021	Laws of Returns	
30	23-03-2021	Forms of Business Organization: Individual Enterprise	
31	24-03-2021	Partnership, Joint Stock Company	
32	27-03-2021	Comparison of Joint-stock Company & Partnership	
33	30-03-2021	Co-operative organization	
34	31-03-2021	Public Enterprise	
		UNIT-5	
35	03-04-2021	Banking & its types	08
36	05-04-2021	Functions of Central Banks	
37	06-04-2021	Functions of Commercial Banks	
38	07-04-2021	Comparison between Central & Commercial Bank	
39	10-04-2021	Introduction to GST	
40	12-04-2021	Market Forms	
41	17-04-2021	Perfect & Imperfect Competition	
42	19-04-2021	Monopoly	
		UNIT-6	
43	20-04-2021	Definitions of Economics	08
44	21-04-2021	Nature of Economics	
45	24-04-2021	Scope of Economics	
46	03-05-2021	Special significance of Economics to Engineers	
47	04-05-2021	Economics of Development	
48	05-05-2021	Characteristics of under development	
49	08-05-2021	Obstacles to Economic growth	
50	10-05-2021	Vicious circle of poverty	
		Total Lectures Planned	50

Prof. A. G. Mahalle

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Department of Information Technology

Lesson Plan (Session 2020-21)

Course Number and Title: - Data Communication and Networking (4IT02)

Name of Faculty: - Prof. A. A. Gulhane

Semester: -IV **Section**: - B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1.	02-02-2021	Types of Network; Network Topologies	
2.	03-02-2021	OSI Vs TCP\IP Model	7
3.	05-02-2021	Network Devices: Bridge, Switch, Router;	
4.	06-02-2021	Transmission Medium: Guided media, Unguided media;	
5.	09-02-2021	Time and Frequency Domain,	
6.	10-02-2021	Types of Signals: Analog, Digital, Composite,	
7.	12-02-2021	Periodic, Aperiodic Signal.	
		Unit-2	
8.	13-02-2021	Data conversions: Digital-to-Digital	7
9.	16-02-2021	Analog-to-Digital	
10.	17-02-2021	Digital-to-Analog; Configuring DTE-DCE Interface	
11.	20-02-2021	Manchester and Differential Manchester encoding	
12.	23-02-2021	Shannon Capacity; Multiplexing: FDM	
13.	24-02-2021	WDM, TDM;	
14.	26-02-2021	Multiplexing Application: Mobile Telephone System	
		Unit-3	
15.	27-02-2021	Data Link Layer	8
16.	02-03-2021	Design Issues: Services to Network Layer	
17.	03-03-2021	Framing, Flow control	
18.	05-03-2021	Error Control: Parity Bits	
19.	06-03-2021	Hamming Code, Cyclic Redundancy Check (CRC)	
20.	09-03-2021	Data Link Protocols: Synchronous	
21.	10-03-2021	Asynchronous Protocols, CSMA/CD,	
22.	12-03-2021	WAN Connectivity Protocols: PPP and HDLC	

Unit-4			
23.	13-03-2021	Addressing and Routing Switching Techniques	7
24.	16-03-2021	IPv4 Addressing Scheme	
25.	17-03-2021	IPv6 addressing Overview	
26.	19-03-2021	Subnetting	
27.	20-03-2021	Evaluating Network Address by router	
28.	23-03-2021	Distance Vector, Link State	
29.	24-03-2021	Ethernet Networks: Token Ring, FDDI.	
Unit-5			
30.	26-03-2021	Networking and Services Transport Layer Services	7
31.	27-03-2021	TCP Protocols	
32.	30-03-2021	UDP Protocols	
33.	31-03-2021	TCP Segment, TCP Connection	
34.	03-04-2021	Upper OSI Layers: Session Layer	
35.	06-04-2021	Presentation Layer	
36.	07-04-2021	Application Layer functions and services.	
Unit-6			
37.	09-04-2021	Network Design and Applications	8
38.	10-04-2021	Network Layout	
39.	16-04-2021	Network Design Metrics	
40.	17-04-2021	Network design traceability	
41.	20-04-2021	WWW, DNS	
42.	21-04-2021	Voice over IP	
43.	23-04-2021	Introduction and Comparison of mobile network system	
44.	24-04-2021	applications: 2G, 3G, 4G.	
45.	28-04-2021	Telephone Nework	Content Beyond Syllabus
46.	25-05-2021	Dial-Up Modems	
47.	28-05-2021	Digital Subscriber Line	
48.	29-05-2021	Cable TV Networks	

Faculty: - Prof. A. A. Gulhane

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2020-21)

Course Number and Title: - THEORY OF COMPUTATION (6IT03)
Name of Faculty: - Prof. N. V. Kadam
Semester: - VI **Section:-** A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	28-02-20	Alphabet	11
2	29-02-20	Language , Operations	
3	30-02-20	Finite state machine, definitions, Finite automation model	
4	31-02-20	Acceptance of strings and languages	
5	1-01-21	Non deterministic finite automation	
6	4-01-21	Finite Automation	
7	5-01-21	Equivalence Between NFA And DFA	
8	6-01-21	Conversion of NFA into DFA	
9	7-01-21	Minimisation Of FSM, Equivalence Between Two FSM's	
10	8-01-21	Moore machines	
11	11-01-21	Melay machines	
12	12-01-21	Regular sets	9
13	13-01-21	Regular Expressions, Identity Rules	
14	14-01-21	Manipulation of regular expressions	
15	15-01-21	Equivalence Between RE And FA	
16	18-01-21	Inter Conversion, Pumping Lemma	
17	19-01-21	Closure properties of regular sets	
18	20-01-21	Regular Grammers, Right Linear & Left Linear Grammers	
19	21-01-21	Equivalence Between Regular Linear Grammer And FA	
20	22-01-21	Inter conversion between RE and RG.	
21	25-01-21	Context Free Grammer	9
22	26-01-21	Derivation Trees	
23	27-01-21	Chomsky Normal Form	
24	28-01-21	Greibach Normal Form	
25	29-01-21	Push Down Automata	
26	1-02-21	Definition, Model, Acceptance of CFL	
27	2-02-21	Equivalence of CFL and PDA	
28	3-02-21	Interconversion	
29	4-02-21	Enumeration of Properties of CFL	
30	5-02-21	Turing Machine	9
31	8-02-21	Definition, Model, Design of TM	
32	9-02-21	Design of TM	
33	10-02-21	Computable Functions	
34	11-02-21	Computable Functions	
35	12-02-21	Recursive Ensumerable Language	

36	15-02-21	Church's Hypothesis	
37	16-02-21	Counter Machine	
38	17-02-21	Types of TM's	
39	18-02-21	Chomshy Hierarchy of Languages	6
40	19-02-21	Linear Bounded Automata	
41	22-02-21	Context Sensitive Language	
42	23-02-21	Introduction of DCFL And DPDA	
43	24-02-21	LR (O)	
44	25-02-21	Grammer, Decidability of Problems	
45	26-02-21	Properties of Recursive Ensumarable Languages	5
46	1-03-21	Properties of Non Recursive Ensumarable Languages	
47	2-03-21	Universal Turing Machine	
48	3-03-21	Post correspondance Problem	
49	4-03-21	Introduction to Recursive Function Theory	
50	8-03-21	GATE Questionnaire	**Content beyond syllabus**
51	9-03-21		
52	10-03-21		
53	11-03-21		
54	15-03-21	Revision of Unit I and II	
55	16-03-21	Revision of Unit III and IV	
56	17-03-21	Revision of Unit V and VI	

Faculty: - Prof. N. V. Kadam

HOD
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Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati

Department of Information Technology

Teaching Plan

(2020 – 2021)

Name of Faculty: Prof. Shailesh P. Thakare

Subject: 6FEIT05 (i) E-COMMERCE **Semester:** VIth

Lecture No.	Date	Topic to be Covered	No. of Lectures
		Unit I	
1.	22/01/2021	Introduction of E-Commerce, The difference between E-commerce and E-business, Why study E-commerce?	6
2.	23/01/2021	Eight unique features of Ecommerce Technology	
3.	23/01/2021	Types of E-Commerce	
4.	29/01/2021	Growth of the Internet and the Web	
5.	30/01/2021	Origins and Growth of E-commerce	
6.	30/01/2021	Ecommerce - A brief History	
		Unit II	
7.	5/02/2021	E-commerce Business Models and Concepts : E-Commerce business Model-eight Key elements of a Business Model.	6
8.	6/02/2021	Major Business-to-Consumer (B2C) Business Models.	
9.	6/02/2021	Major Business to -Business (B2B) Business Models.	
10.	12/02/2021	Business Models emerging in E-Commerce areas.	
11.	13/02/2021	How the Internet and the WEB change Business: Strategy, Structure, and process.	
12.	13/02/2021	How the Internet and the WEB change Business: Strategy, Structure, and process.	
		Unit III	
13.	20/02/2021	The Internet: Technology Background,	6
14.	20/02/2021	The Internet: Technology Background,	
15.	26/02/2021	The Internet Today	
16.	27/02/2021	Internet II; The future infrastructure,	
17.	27/02/2021	The World Wide Web.	
18.	05/03/2021	The Internet and the Web Features	
		Unit IV	
19.	06/03/2021	Building and E-Commerce Wet Site- A strategic approach	6
20.	06/03/2021	Building and E-Commerce Wet Site- A strategic approach	
21.	12/03/2021	Choosing Server Software.	
22.	13/03/2021	Choosing Server Software.	
23.	13/03/2021	Choosing the Hardware for an E-Commerce site,	
24.	30/04/2021	Other Ecommerce Site Tools	
		Unit V	
25.	07/05/2021	Online Security and payment systems :The E-Commerce Security Environment,	6
26.	08/05/2021	Security threads in the E-commerce environment, ,	
27.	08/05/2021	Technology solutions	
28.	14/05/2021	Technology solutions	

29.	15/05/2021	Management Policies, business procedures and public laws	
30.	15/05/2021	payment systems	
31.	21/05/2021	Consumer online; The Internet Audience and Consumer behavior.	
32.	22/05/2021	The Internet Audience and Consumer behavior.	
33.	22/05/2021	Basic Marketing Concepts, Internet Marketing Technologies,	
34.	28/05/2021	Basic Marketing Concepts, Internet Marketing Technologies,	6
35.	29/05/2021	B2C and B2C E-Commerce marketing and Branding strategies	
36.	29/05/201	B2C and B2C E-Commerce marketing and Branding strategies	

Subject Teacher

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Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Information Technology

(Session 2020-2021)

Course Number and Title: - Computer Networks (6IT04)
Name of Faculty: - Prof. G.K.Wadnere
Semester: - VI **Section: -** A

Lecture No.	Planned Dates	Topic Name	Total Hours
		Unit 1	
1	18.1.21	Introduction to Vision, Mission, CO & CLO, Graduate Attributes	**08**
2	19.1.21	Introduction to Computer network, Uses, Hardware, Software	
3	20.1.21	Reference Model, Standardization	
4	22.1.21	Physical Layer	
5	23.1.21	Theoretical Basis for DC	
6	25.1.21	Guided transmission Media	
7	27.1.21	Wireless Transmission, communication satellite, Public Switched Telephone Network	
8	5.2.21	Mobile Telephone System, Cable Television	
		Unit 2	
9	6.2.21	Data Link Layers	**08**
10	12.2.21	Data Link Layers : Design issues	
11	15.2.21	Error detection and correction	

12	16.2.21	Elementary Data Link protocols	
13	17.2.21	Sliding window Protocols	
14	24.2.21	Sliding window Protocol Verification	
15	26.2.21	Protocol Verification	
16	27.2.21	Example DL protocols	
		Unit 3	
17	1.3.21	MAC Sub layer	
18	2.3.21	Static and Dynamic channel allocation	
19	4.3.21	Multiple Access protocols, ALHOA, CSMA	
20	5.3.21	Collision Free Protocols	
21	6.3.21	Ethernet	08
22	8.3.21	Wireless LANS	
23	9.3.21	Broadband Wireless, Bluetooth	

24	10-3-201	Data Link Layer Switching	
		Unit 4	
25	12.3.21	Network Layer	
26	13.3.21	Design Issues, Routing methods	
27	12.4.2021	Shortest path, flooding, Link state	
28	30.4.201	Distance vector routing	
29	03.05.2021	Broadcast & multicast routing	
30	4.5.2021	Congestion control algorithms	**09**
31	5.5.2021	Internet working	
32	7.5.2021	Quality of services	
33	8.5.2021	Network layer in the Internet	
		Unit 5	
34	10.5.2021	The Transport Layer, Service primitives	
35	11.5.2021	UDP, RPC,RTTP	**08**

36	12.5.2021	TCP Services and Features	
37	15.5.2021	TCP segment format	
38	17.5.2021	TCP segment format	
39	18.5.2021	TCP Connections	
40	21.5.2021	TCP Timers, Performance Issue	
41	22.5.2021	Transmission Control protocol services, User Data gram Protocol services	
		Unit 6	
42	24.05.2021	The Application Layer	**07**
43	25.5.2021	The Application Layer Services and Functions	
44	28.5.21	DNS,	
45	29.5.2021	Electronic Mail	
46	31.5.21	World Wide Web	
47	1.6.2021	Multimedia	
48	2.6.2021	Voice over IP, H.323, Video on demand	

Subject Teacher
Prof. G.K Wadnere

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Dr. P.V. Ingole
Head
Deptt. of Information Technology
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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2020-21)

Course Number and Title: - THEORY OF COMPUTATION (6IT03)
Name of Faculty: - Prof. M. S. Deshmukh
Semester: - VI **Section:-** B

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18-01-21	Alphabet	11
2	19-01-21	Language , Operations	
3	20-01-21	Finite state machine, definitions, Finite automation model	
4	21-01-21	Acceptance of strings and languages	
5	22-01-21	Non deterministic finite automation	
6	25-01-21	Finite Automation	
7	27-01-21	Equivalence Between NFA And DFA	
8	28-01-21	Conversion of NFA into DFA	
9	29-01-21	Minimisation Of FSM, Equivalence Between Two FSM's	
10	01-02-21	Moore machines	
11	02-02-21	Melay machines	
		UNIT-II	
12	04-02-21	Regular sets	9
13	05-02-21	Regular Expressions, Identity Rules	
14	08-02-21	Manipulation of regular expressions	
15	09-02-21	Equivalence Between RE And FA	
16	10-02-21	Inter Conversion, Pumping Lemma	
17	11-02-21	Closure properties of regular sets	
18	12-02-21	Regular Grammers, Right Linear & Left Linear Grammers	
19	15-02-21	Equivalence Between Regular Linear Grammer And FA	
20	16-02-21	Inter conversion between RE and RG.	
		UNIT III	
21	17-02-21	Context Free Grammer	9
22	18-02-21	Derivation Trees	
23	22-02-21	Chomsky Normal Form	
24	23-02-21	Greibach Normal Form	
25	24-02-21	Push Down Automata	
26	25-02-21	Definition, Model, Acceptance of CFL	
27	26-02-21	Equivalence of CFL and PDA	
28	01-03-21	Interconversion	
29	02-03-21	Enumeration of Properties of CFL	
		UNIT-IV	
30	03-03-21	Turing Machine	9
31	04-03-21	Definition, Model, Design of TM	
32	05-03-21	Design of TM	
33	08-03-21	Computable Functions	
34	09-03-21	Computable Functions	
35	10-03-21	Recursive Ensumerable Language	

36	12-03-21	Church's Hypothesis	
37	15-03-21	Counter Machine	
38	16-03-21	Types of TM's	
		UNIT-V	
39	17-03-21	Chomshy Hierarchy of Languages	6
40	18-03-21	Linear Bounded Automata	
41	19-03-21	Context Sensitive Language	
42	22-03-21	Introduction of DCFL And DPDA	
43	23-03-21	LR (O)	
44	24-03-21	Grammer, Decidability of Problems	
		UNIT-VI	
45	25-03-21	Properties of Recursive Ensumarable Languages	5
46	26-03-21	Properties of Non Recursive Ensumarable Languages	
47	30-03-21	Universal Turing Machine	
48	31-03-21	Post correspondance Problem	
49	01-04-21	Introduction to Recursive Function Theory	
50	05-04-21	GATE Questionnaire	Content beyond syllabus
51	06-04-21		
52	07-04-21		
53	08-04-21		
54	09-04-21	Revision of Unit I and II	
55	12-04-21	Revision of Unit III and IV	
56	15-04-21	Revision of Unit V and VI	

Faculty: - Prof. M. S. Deshmukh

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2021-22)

Course Number and Title: - Computer Network (6IT04)
Name of Faculty: - Prof. S.N.Sarda
Semester: - VI **Section: -** B

Lecture No.	Planned Dates	Topic Name	Total hours
1	18-01-21	Vision Mission of Institution, Vision Mission of our Department, Objective of subject, Grading scheme, Text Books and Ref Books, Syllabus and Course Learning Outcomes (CLO),Application and importance of the Subject.	01
		Unit-1 Introduction to Computer network	
2	20-01-21	Introduction to Computer network, Uses, Hardware, Software.	07
3	21-01-21	Reference Model, Standardization	
4	22-01-21	Physical Layer	
5	23-01-21	Theoretical Basis for DC	
6	25-01-21	Guided transmission Media	
7	27-01-21	Wireless Transmission, communication satellite, Public Switched Telephone Network	
8	05-02-21	Mobile Telephone System, Cable Television	
		Unit-2 Data Link Layers	
9	06-02-21	Basic concepts Data Link Layers	08
10	08-02-21	Data Link Layers : Design issues	
11	10-02-21	Error detection and correction	
12	11-02-21	Elementary Data Link protocols	
13	12-02-21	Sliding window Protocols	
14	13-02-21	Sliding window Protocol Verification	
15	26-02-21	Protocol Verification	
16	27-02-21	Example DL protocols	

Unit-3 MAC Sublayer			
17	01-03-21	MAC Sub layer	**08**
18	03-03-21	Static and Dynamic channel allocation	
19	04-03-21	Multiple Access protocols, ALHOA, CSMA	
20	05-03-21	Collision Free Protocols	
21	06-03-21	Ethernet	
22	08-03-21	Wireless LANS	
23	10-03-21	Broadband Wireless, Bluetooth	
24	11-03-21	Data Link Layer Switching	
Unit-4 Network Layer			
25	12-03-21	Network Layer	**09**
26	13-03-21	Design Issues, Routing methods	
27	12-04-21	Shortest path, flooding, Link state	
28	30-04-21	Distance vector routing	
29	03-05-21	Broadcast & multicast routing	
30	05-05-21	Congestion control algorithms	
31	06-05-21	Internet working	
32	07-05-21	Quality of services	
33	08-05-21	Network layer in the Internet	
Unit-5 The Transport Layer			
34	10-05-21	The Transport Layer, Service primitives	**0**
35	12-05-21	UDP, RPC,RTTP	
36	13-05-21	TCP Services and Features	
37	14-05-21	TCP segment format	
38	15-05-21	TCP segment format	
39	17-05-21	TCP Connections	
40	19-05-21	TCP Timers, Performance Issue	
41	20-05-21	Transmission Control protocol services, User Data gram Protocol services	

Unit-6 The Application Layer			
42	21-05-21	The Application Layer	07
43	22-05-21	The Application Layer Services and Functions	
44	24-05-21	DNS,	
45	26-05-21	Electronic Mail	
46	27-05-21	World Wide Web	
47	28-05-21	Multimedia	
48	29-05-21	Voice over IP, H.323, Video on demand	

Faculty: - Prof. S. N. Sarda

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan (Session 2020-21)

Course Number and Title: - **Principles of Management** (6IT01)
Name of Faculty: - Prof. H.D.Kale
Semester: - VI **Section :-** A B

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18.1.21	Introduction: Definition and concepts of management	**08**
2	19.1.21	Importance of management	
3	20.1.21	Various management functions	
4	22.1.21	Control, responsibilities	
5	23.1.21	Human resources planning	
6	25.1.21	Decision-making	
7	27.1.21	Trade unions	
8	5.2.21	Collective bargaining	
		UNIT-II	
09	6.2.21	Organization planning	08
10	12.2.21	Design and development-Introduction	
11	15.2.21	Design and development	
12	16.2.21	Production resources	
13	17.2.21	Production planning	
14	24.2.21	Types of production system	
15	26.2.21	Production systems	
16	27.2.21	Production control	
		UNIT-III	
17	1.3.21	Product design & development-Introduction	**08**
18	2.3.21	Product design & development	
19	4.3.21	Design of the product	
20	5.3.21	Design of the product and types	
21	6.3.21	New product development	
		New product development types	

22	8.3.21		
23	9.3.21	Material planning and control	
24	10-3-201	Material planning and control	
		UNIT-IV	
25	12.3.21	Maintenance and system reliability	
26	13.3.21	Concepts and Objectives of maintenance	
27	12.4.2021	Failure analysis	
28	30.4.2021	Reliability Maintenance	
29	03.05.2021	Reliability Maintenance system & Classification	**08**
30	4.5.2021	Maintenance planning	
31	5.5.2021	TQM ISO 9000 a	
32	7.5.2021	Quality audit	
		UNIT-V	
33	8.5.2021	Marketing management- Introduction	
34	10.5.21	Marketing planning	
35	11.5.21	Consumer behavior	
36	12.5.21	Product management	**08**
37	15.5.21	Pricing & promotion decision	
38	17.5.21	Financial planning	
39	18.5.21	Source of finance	
40	21.5.21	Source of finance & types	
		UNIT-VI	
41	22.5.21	Project Management	
42	24.05.21	Concepts and importance of project	
43	25.5.21	Project implementation	
44	28.5.21	MIS MIS meaning and objectives	
45	29.5.21	Types of data, methods of data collection	**08**
46	31.5.21	Analysis and presentation of data	
47	1.6.2021	Editing, reporting and presentation of data	
48	2.6.2021	Decision options	

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan (Session 2020-21)

Course Number and Title: - **Principles of Management** (6IT01)
Name of Faculty: - Prof. H.D.Kale
Semester: - VI **Section :- A**

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18.1.21	Introduction: Definition and concepts of management	**08**
2	19.1.21	Importance of management	
3	20.1.21	Various management functions	
4	22.1.21	Control, responsibilities	
5	23.1.21	Human resources planning	
6	25.1.21	Decision-making	
7	27.1.21	Trade unions	
8	5.2.21	Collective bargaining	
		UNIT-II	
09	6.2.21	Organization planning	08
10	12.2.21	Design and development-Introduction	
11	15.2.21	Design and development	
12	16.2.21	Production resources	
13	17.2.21	Production planning	
14	24.2.21	Types of production system	
15	26.2.21	Production systems	
16	27.2.21	Production control	
		UNIT-III	
17	1.3.21	Product design & development-Introduction	**08**
18	2.3.21	Product design & development	
19	4.3.21	Design of the product	
20	5.3.21	Design of the product and types	
21	6.3.21	New product development	
		New product development types	

22	8.3.21		
23	9.3.21	Material planning and control	
24	10-3-201	Material planning and control	
		UNIT-IV	
25	12.3.21	Maintenance and system reliability	
26	13.3.21	Concepts and Objectives of maintenance	
27	12.4.2021	Failure analysis	
28	30.4.2021	Reliability Maintenance	
29	03.05.2021	Reliability Maintenance system & Classification	**08**
30	4.5.2021	Maintenance planning	
31	5.5.2021	TQM ISO 9000 a	
32	7.5.2021	Quality audit	
		UNIT-V	
33	8.5.2021	Marketing management- Introduction	
34	10.5.21	Marketing planning	
35	11.5.21	Consumer behavior	
36	12.5.21	Product management	
37	15.5.21	Pricing & promotion decision	**08**
38	17.5.21	Financial planning	
39	18.5.21	Source of finance	
40	21.5.21	Source of finance & types	
		UNIT-VI	
41	22.5.21	Project Management	
42	24.05.21	Concepts and importance of project	
43	25.5.21	Project implementation	
44	28.5.21	MIS MIS meaning and objectives	
45	29.5.21	Types of data, methods of data collection	
46	31.5.21	Analysis and presentation of data	**08**
47	1.6.2021	Editing, reporting and presentation of data	
48	2.6.2021	Decision options	

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Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati

Department of Information Technology

Teaching Plan

(2020 – 2021)

Name of Faculty: Prof. R. P. Fuke

Subject: 6FEIT05 (ii) Knowledge Management **Semester:** VIth

Lecture No.	Date	Topic to be Covered	No. of Lectures
		Unit I	
1.	22/01/2021	Importance of knowledge management, key assumptions	6
2.	23/01/2021	The knowledge society concept and critical evaluation	
3.	23/01/2021	Objectivist perspectives on knowledge.	
4.	29/01/2021	The knowledge-based theory of the firm, typologies of knowledge	
5.	30/01/2021	an objectivist perspectives on sharing and management of knowledge.	
6.	30/01/2021	Features of practice-based perspective.	
		Unit II	
7.	5/02/2021	what is management, knowledge management and business strategy,	6
8.	6/02/2021	conceptualizing the diversity of knowledge management strategies,	
9.	6/02/2021	The rises and defining knowledge worker, knowledge work and ambiguity	
10.	12/02/2021	Knowledge process in knowledge intensive firms contrasting, perspective.	
11.	13/02/2021	learning and knowledge management, the heterogeneity of learning.	
12.	13/02/2021	dynamics of organizational learning	
		Unit III	
13.	20/02/2021	Characterizing innovation process, innovation as an interactive process	6
14.	20/02/2021	Knowledge creation and Nonaka,	
15.	26/02/2021	The social dynamic of innovation networking process,	
16.	27/02/2021	Conceptualizing organizational forgetting	
17.	27/02/2021	Conceptualizing organizational forgetting.	
18.	05/03/2021	Barriers to unlearning.	
		Unit IV	
19.	06/03/2021	The share/hoard dilemma,	6
20.	06/03/2021	The context of the employment relationship.	
21.	12/03/2021	the ubiquity of conflict in business organizations and its impact	
22.	13/03/2021	Inter-personal trust	
23.	13/03/2021	Group identity, personality	
24.	30/04/2021	Communities of practice	
		Unit V	
25.	07/05/2021	The significance and Characterizing cross community knowledge process,	6
26.	08/05/2021	Identity, trust and social relations, a classification of boundary types.	

27.	08/05/2021	facilitating/managing knowledge between communities,	
28.	14/05/2021	two perspectives on power and the power/knowledge relationship.	
29.	15/05/2021	power as a resource and the critical discourse on knowledge management.	
30.	15/05/2021	Power/ knowledge and the dialogical discourse on knowledge management.	
Unit VI			
31.	21/05/2021	Linking knowledge management ICTs.	6
32.	22/05/2021	Objectivist and practice-based perspectives on ICT	
33.	22/05/2021	The importance of accounting for socio-cultural factors in ICT.	
34.	28/05/2021	Debates regarding the role of ICTs in knowledge management process,	
35.	29/05/2021	Why cultural management and HRM practice are important to knowledge management	
36.	29/05/201	HRM, staff retention, Leadership and knowledge management	

Subject Teacher

Prof. R. P. Fuke

H.O.D.

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Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Information Technology

Lesson Plan

Session: 2020-21

Course Number & Title : -Software Engineering (8IT03)
Name of Faculty : -Prof R. M. Hushangabade
Semester: VIII[th]

Section: A

Sr. No	Planned Date	Topic to be covered	Total Hours
		UNIT-I	
1	18.1.21	Introduction to Vision, Mission, CO & CLO, Graduate Attributes	9
2	19.1.21	Evolving role of Software	
3	20.1.21	Software crises & myths	
4	22.1.21	Software process & process models : Linear sequential	
5	23.1.21	Prototyping Model, RAD Model	
6	25.1.21	Evolutionary Product & Process	
7	27.1.21	Project management concepts : People, Product, Process, Project	
8	5.2.21	WSHH principle	
9	6.2.21	critical practice	
		UNIT-II	
10	12.2.21	Measures, Metrics & Indicators	8
11	15.2.21	Metrics in process & project domains-software measurement	
12	16.2.21	Metrics for software quality, small organization	
13	17.2.21	Software projects Planning	
14	24.2.21	Scope, resources, estimation	
15	26.2.21	decomposition technique, Tools	
16	27.2.21	Software risks : identification, risk projection, refinement	
17	1.3.21	RMMM plan	
		UNIT-III	
18	2.3.21	Project Scheduling	8
19	4.3.21	Concepts. Peoples Efforts. Task set, Task network	
20	5.3.21	Scheduling. EV analysis, Project Plan	
21	6.3.21	Software quality concepts	
22	8.3.21	SQ Assurance, Software reviews, technical reviews	
23	9.3.21	software reliability, ISO 900 L, SQA Plan	
24	10.3.21	SCM process. Version control	
25	12.3.21	SCM standard	

		UNIT-IV	
26	13.3.21	System engineering	9
27	12.4.2021	Hierarchy, Business Process & Product engineering	
28	30.4.201	Overviews. Requirement engineering, System modelling	
29	3.5.2021	Requirement analysis. Analysis principles	
30	4.5.2021	Software prototyping. Specification	
31	5.5.2021	Design Process.	
32	7.5.2021	Design Principles &Concepts	
33	8.5.2021	Effective modular design	
34	10.5.2021	Design model & documentation	
		UNIT-V	
35	11.5.2021	Software architecture	9
36	12.5.2021	Data Design, Architectural styles, Requirement mapping	
37	15.5.2021	Transform & Transaction mappings	
38	17.5.2021	User interface design	
39	18.5.2021	Golden Rule. UTD, Task analysis & modeling	
40	21.5.2021	ID activities, Tools, design evaluation	
41	22.5.2021	Component level design	
42	24.5.2021	Structure programming,	
43	25.5.2021	Comparison of design notation	
		UNIT-VI	
44	28.5.21	Software testing fundamentals, Test case design, White box testing	6
45	29.5.2021	Basis path, control structure Black box-Testing.	
46	31.5.21	control structure Black box-Testing for specialized environments	
47	1.6.2021	Strategic approach to S/W testing	
48	2.6.2021	Unit, integration Testing, Validation testing, System testing	
49	3.6.2021	Debugging, Technical metrics for software	

Faculty: Prof R. M. Hushangabade

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Prof. Ram Meghe Institute of Technology & Research, Badnera
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Lesson Plan (Session 2020-21)

Course Number and Title: - NETWORK ADMINISTRATION SECURITY (8IT02)
Name of Faculty: - Prof. P. V. Dudhe
Semester: - VIII **Section :-** A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18-01-2021	Introduction to Network Security	08
2	19-01-2021	passive and active attacks	
3	20-01-2021	Access control, Integrity	
4	21-01-2021	Internet standards: The Internet society	
5	22-01-2021	RFC publications (Request for comments).	
6	25-01-2021	The model of internetwork security	
7	27-01-2021	Authentication, security mechanism	
8	28-01-2021	Security Services, **recent scenario of attack and security**	
		UNIT-II	
9	29-01-2021	Cryptography: Encryption principles	9
10	01-02-2021	Symmetric Encryption algorithm	
11	02-02-2021	DES, 3DES	
12	03-02-2021	AES algorithm	
13	04-02-2021	standardization process	
14	05-02-2021	key distribution	
15	08-02-2021	public key cryptography	
16	09-02-2021	message authentication	
17	10-02-2021	digital signature, current cryptographic algorithm	
		UNIT III	
18	11-02-2021	Introduction to Network security applications: Kerberos	9
19	12-02-2021	X.509 directory authentication services	
20	14-02-2021	e-mail security	
21	15-02-2021	MIME (Multipurpose Internet Mail Extensions)	
22	17-02-2021	MIME (Multipurpose Internet Mail Extensions)	
23	18-02-2021	PGP (Pretty Good Privacy) operational description	
24	22-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
25	23-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
26	24-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
		UNIT IV	
27	25-02-2021	IP Security: Overview	9
28	26-02-2021	IP security architecture	
29	01-03-2021	IP security architecture	
30	02-03-2021	Web Security: Web security requirements	
31	03-03-2021	secure socket layer SSL	
32	04-03-2021	Transport layer security TLS	

33	05-03-2021	Secure electronic transactions TES	
34	08-03-2021	Secure electronic transactions TES	
35	09-03-2021	Authentication header	
		UNIT-V	
36	10-03-2021	Introduction to Network Management Security	
37	12-03-2021	Basic concepts of SNMP	
38	15-03-2021	Network management architecture and protocol architectures	
39	16-03-2021	proxies, services, SNMPv1 authentication service	**6**
40	17-03-2021	access policy and proxy service	
41	18-03-2021	SNMPv2 architecture	
		42	
42	19-03-2021	System Security: Intruders, Intrusion technologies	
43	22-03-2021	password protection, password selection strategies	
44	23-03-2021	Intrusion detection, viruses and related threats	
45	24-03-2021	and related threats: Nature of viruses, types, micro viruses and various antivirus approaches	
46	25-03-2021	Firewall: Characteristics, types of fire walls, Firewall configuration	**8**
47	26-03-2021	Intrusion detection, viruses., Trusted systems	
48	29-03-2021	data access control	
49	31-03-2021	The concept of the trusted systems.	
50	30-03-2021	GATE Questionnaire	Content beyond syllabus
51	01-04-2021		
52	03-04-2021		
53	12-04-2021	Test and Revision on Unit I and II	
54	16-04-2021	Test Revision on Unit III and IV	

Faculty: - Prof. P. V. Dudhe

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2020-21)

Course Number and Title: -NETWORK ADMINISTRATION SECURITY (8IT02)
Name of Faculty: - Prof. S.I.Saudagar
Semester: - VIII
Section :- B

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18-01-2021	Mission vision of institute and department, PO,PEO and PSO of department, CO and CLO of the subject.	08
2	19-01-2021	Introduction to Network Security, passive and active attacks	
3	20-01-2021	Access control, Integrity	
4	21-01-2021	Internet standards: The Internet society	
5	22-01-2021	RFC publications (Request for comments).	
6	25-01-2021	The model of internetwork security	
7	27-01-2021	Authentication, security mechanism	
8	28-01-2021	Security Services, **recent scenario of attack and security**	
		UNIT-II	
9	29-01-2021	Cryptography: Encryption principles	9
10	01-02-2021	Symmetric Encryption algorithm	
11	02-02-2021	DES, 3DES	
12	03-02-2021	AES algorithm	
13	04-02-2021	standardization process	
14	05-02-2021	key distribution	
15	08-02-2021	public key cryptography	
16	09-02-2021	message authentication	
17	10-02-2021	digital signature, **current cryptographic algorithm**	
		UNIT III	
18	11-02-2021	Introduction to Network security applications: Kerberos	9
19	12-02-2021	X.509 directory authentication services	
20	14-02-2021	e-mail security	
21	15-02-2021	MIME (Multipurpose Internet Mail Extensions)	
22	17-02-2021	MIME (Multipurpose Internet Mail Extensions)	
23	18-02-2021	PGP (Pretty Good Privacy) operational description	
24	22-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
25	23-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
26	24-02-2021	S MIME (Security/Multipurpose internet mail extensions) functionality	
		UNIT IV	
27	25-02-2021	IP Security: Overview	9
28	26-02-2021	IP security architecture	
29	01-03-2021	IP security architecture	
30	02-03-2021	Web Security: Web security requirements	

31	03-03-2021	secure socket layer SSL	
32	04-03-2021	Transport layer security TLS	
33	05-03-2021	Secure electronic transactions TES	
34	08-03-2021	Secure electronic transactions TES	
35	09-03-2021	Authentication header	
		UNIT-V	
36	10-03-2021	Introduction to Network Management Security	**6**
37	12-03-2021	Basic concepts of SNMP	
38	15-03-2021	Network management architecture and protocol architectures	
39	16-03-2021	proxies, services, SNMPv1 authentication service	
40	17-03-2021	access policy and proxy service	
41	18-03-2021	SNMPv2 architecture	
		42	
42	19-03-2021	System Security: Intruders, Intrusion technologies	**8**
43	22-03-2021	password protection, password selection strategies	
44	23-03-2021	Intrusion detection, viruses and related threats	
45	24-03-2021	and related threats: Nature of viruses, types, micro viruses and various antivirus approaches	
46	25-03-2021	Firewall: Characteristics, types of fire walls, Firewall configuration	
47	26-03-2021	Intrusion detection, viruses., Trusted systems	
48	29-03-2021	data access control	
49	31-03-2021	The concept of the trusted systems.	
50	30-03-2021	GATE Questionnaire	Content beyond syllabus
51	01-04-2021		
52	03-04-2021		
53	12-04-2021	Test and Revision on Unit I and II	
54	16-04-2021	Test Revision on Unit III and IV	

Faculty: - Prof. S.I. Saudagar

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Cloud Computing (8IT04)
Name of Faculty: - Prof. N. S. Band
Semester :- VIII **Section :-** A&B

Lecture No.	Planned Dates	Topic Name	Total hours
		Introduction to Course	
1	18/01/2021	Vision Mission of Institution, Vision Mission of our Department ,Objective of subject, Grading scheme, Text Books and Ref Books, Syllabus and Course Learning Outcomes (CLO),Application and importance of the Subject, Graduate Attributes	01
		Unit-1	
2	19/01/2021	Introduction to Cloud Computing.	08
3	20/01/2021	The SPI Framework for Cloud Computing.	
4	21/01/2021	Relevant Technologies in Cloud Computing.	
5	22/01/2021	The Cloud Services Delivery Model.	
6	25/01/2021	Cloud Deployment Models.	
7	27/01/2021	Key Drivers to Adopting the Cloud.	
8	28/01/2021	The Impact of Cloud Computing on Users.	
9	29/01/2021	Barriers to Cloud Computing Adoption in the Enterprise.	
		Unit-2	
10	01/02/2021	Introduction to Infrastructure Security	11
11	02/02/2021	The Network Level: Ensuring Data Confidentiality and Integrity	
12	03/02/2021	Ensuring Proper Access Control.	
13	04/02/2021	The Host Level: SaaS and PaaS Host Security.	
14	05/02/2021	IaaS Host Security.	
15	08/02/2021	Virtual Server Security.	
16	09/02/2021	The Application Level:	
17	10/02/2021	SaaS Application Security.	
18	11/02/2021	PaaS Application Security.	
19	12/02/2021	IaaS Application Security.	
20	15/02/2021	Data Security and Storage: Provider Data and Its Security.	
		Unit-3	
21	16/02/2021	Need of IAM	10
22	17/02/2021	IAM challenge and definition	
23	18/02/2021	IAM Architecture and Practice.	
24	22/02/2021	Security Management in the Cloud	
25	23/02/2021	Security Management in the Cloud.	
26	24/02/2021	Availability Management	
27	25/02/2021	SaaS	
28	26/02/2021	PaaS	
29	01/03/2021	IaaS Availability Management	
30	02/03/2021	Access control	
		Unit-4	
31	03/03/2021	Key Privacy Concerns in the Cloud	06

33	04/03/2021	Changes to Privacy.	
34	05/03/2021	Risk Management	
35	12/03/2021	Compliance in Relation to Cloud Computing.	
36	13/03/2021	Legal and Regulatory Implications	
37	15/03/2021	International Laws and Regulations.	
Unit-5			
39	16/03/2021	Internal Policy Compliance	**08**
40	17/03/2021	Governance.	
41	18/03/2021	Risk.	
42	19/03/2021	and Compliance (GRC).	
43	22/03/2021	Illustrative Control Objectives for Cloud Computing.	
44	23/03/2021	Incremental CSP-Specific Control Objectives.	
45	24/03/2021	Additional Key Management Control Objectives.	
46	25/03/2021	Control Considerations for CSP Users.	
47	26/03/2021	Regulatory/External Compliance.	
SUnit-6			
48	29/03/2021	The Impact of Cloud Computing on the Role of Corporate IT	**05**
49	30/03/2021	Why Cloud Computing Will Be Popular with Business Units	
50	31/03/2021	Potential Threats of Using CSPs.	
51	01/04/2021	A Case Study Illustrating Potential Changes in the IT Profession Caused by Cloud Computing	
52	05/04/2021	Governance Factors to Consider When Using Cloud Computing	
53	06/04/2021	AWS Cloud Service	Content beyond Syllabus
54	07/04/2021	Microsoft Azure Cloud Service	
55	08/04/2021	GCP Cloud Service	

Faculty: - Prof.N.S.Band

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2020-21)

Course Number and Title: - Web Commerce (8IT04)
Name of Faculty: - Dr.A.S.Alvi
Semester: - VIII
Section :- A+B

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	18-01-2021	Basic web commerce concepts	6
2	19-01-2021	Basic web commerce concepts	
3	20-01-2021	Electronic commerce environments,	
4	21-01-2021	Electronic marketplace technologies,	
5	22-01-2021	EDI	
6	25-01-2021	Electronic commerce with www internet, commerce net advocacy.	
		UNIT-II	
7	26-01-2021	Approach to safe E-commerce: overview	6
8	27-01-2021	Secure transport protocol and transaction	
9	28-01-2021	Secure Electronic Payment Protocol(SEPP)	
10	29-01-2021	Secure Electronic Transaction(SET)	
11	01-02-2021	Certificate for authentication	
12	02-02-2021	Security on web server and enterprise network.	
		UNIT III	
13	03-02-2021	Electronic cash and Electronic payment scheme: overview	8
14	04-02-2021	Internet monetary payment and security requirements	
15	05-02-2021	Internet monetary payment and security requirements	
16	08-02-2021	Payment & purchase order process:Account Holder Registration	
17	09-02-2021	Merchant Registration	
18	10-02-2021	Account Holder Ordering, Payment Authorization	
19	11-02-2021	Online Electronic cash	
20	12-02-2021	Electronic Payment Schemes	
		UNIT-IV	
21	15-02-2021	**Internet/Intranet Security issues and solutions: Needs for computer security**	10
22	16-02-2021	**Security strategies**	
23	17-02-2021	**Encryption**	
24	18-02-2021	MasterCard/ visa secure Electronic Transaction: Introduction, requirements	
25	22-02-2021	MasterCard/ visa secure Electronic Transaction : concepts	
26	23-02-2021	payment processing: Cardholder Registration	
27	24-02-2021	Payment processing: Cardholder Registration	
28	25-02-2021	Payment processing: Merchant Registration	
29	01-03-2021	Payment processing: Purchase Request	
30	02-03-2021	Payment processing: Payment Authorization & Capture	

		UNIT-V	
31	03-03-2021	Secure E-mail Technologies: Introduction	6
32	04-03-2021	Means of distribution, Models for message handling	
33	05-03-2021	How does Email work?	
34	08-03-2021	MIME	
35	09-03-2021	S/ MIME ,MOSS	
36	10-03-2021	MIME and Related facilities for EDI over the internet	
		UNIT-VI	
37	12-03-2021	Internet & web site Establishment:Internet Resources for commerce: introduction,	6
38	15-03-2021	Web server Technologies	
39	16-03-2021	Internet tools Relevant to commerce	
40	17-03-2021	Internet applications for commerce	
41	18-03-2021	Internet Access and Architecture	
42	19-03-2021	Internet searching	
42	22-03-2021	Internet searching	
43	23-03-2021	Revision of Unit I	
44	24-03-2021	Revision of Unit II	
45	25-03-2021	Revision of Unit III	
46	26-03-2021	Revision of Unit IV	
47	30-03-2021	Revision of Unit V	
48	31-03-2021	Revision of Unit VI	

Faculty: - Dr. A.S.Alvi

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Department of Information Technology

Lesson Plan

Session: 2020-21

Course Number & Title : -Software Engineering (8IT03)
Name of Faculty : -S. D. Thakur
Semester: VIII[th] **Section:** B

Sr. No	Planned Date	Topic to be covered	Total Hours
		UNIT-I	
1	18-01-2021	Evolving role of Software	8
2	19-01-2021	Software crises & myths	
3	20-01-2021	Software process & process models : Linear sequential	
4	21-01-2021	Prototyping Model, RAD Model	
5	22-01-2021	Evolutionary Product & Process	
6	25-01-2021	Project management concepts : People, Product, Process, Project	
7	27-01-2021	WSHH principle	
8	28-01-2021	critical practice	
		UNIT-II	
9	29-01-2021	Measures, Metrics & Indicators	8
10	01-02-2021	Metrics in process & project domains-software measurement	
11	02-02-2021	Metrics for software quality, small organization	
12	03-02-2021	Software projects Planning	
13	04-02-2021	Scope, resources, estimation	
14	05-02-2021	decomposition technique, Tools	
15	08-02-2021	Software risks : identification, risk projection, refinement	
16	09-02-2021	RMMM plan	
		UNIT-III	
17	11-02-2021	Project Scheduling	8
18	12-02-2021	Concepts. Peoples Efforts. Task set, Task network	
19	14-02-2021	Scheduling. EV analysis, Project Plan	
20	15-02-2021	Software quality concepts	
21	17-02-2021	SQ Assurance, Software reviews, technical reviews	
22	18-02-2021	software reliability, ISO 900 L, SQA Plan	
23	22-02-2021	SCM process. Version control	
24	23-02-2021	SCM standard	

		UNIT-IV	
25	25-02-2021	System engineering	9
26	26-02-2021	Hierarchy, Business Process & Product engineering	
27	01-03-2021	Overviews. Requirement engineering, System modelling	
28	02-03-2021	Requirement analysis. Analysis principles	
29	03-03-2021	Software prototyping. Specification	
30	04-03-2021	Design Process.	
31	05-03-2021	Design Principles &Concepts	
32	08-03-2021	Effective modular design	
33	09-03-2021	Design model & documentation	
		UNIT-V	
34	10-03-2021	Software architecture	9
35	12-03-2021	Data Design, Architectural styles, Requirement mapping	
36	15-03-2021	Transform & Transaction mappings	
37	16-03-2021	User interface design	
38	17-03-2021	Golden Rule. UTD, Task analysis & modeling	
39	18-03-2021	ID activities, Tools, design evaluation	
40	19-03-2021	Component level design	
41	22-03-2021	Structure programming,	
42	23-03-2021	Comparison of design notation	
		UNIT-VI	
43	24-03-2021	Software testing fundamentals, Test case design, White box testing	9
44	25-03-2021	Basis path, control structure Black box-Testing.	
45	26-03-2021	control structure Black box-Testing for specialized environments	
46	29-03-2021	Strategic approach to S/W testing	
47	31-03-2021	Unit, integration Testing	
48	30-03-2021	Validation testing	
49	01-04-2021	System testing	
50	03-04-2021	Debugging	
51	12-04-2021	Technical metrics for software	
52	16-04-2021	Component-Based Software Engineering	**Content Beyond Syllabus**
53	19-04-2021	Reengineering	
54	20-04-21	Computer-Aided Software Engineering	

Subject Faculty: S. D. Thakur

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Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati

Department of Information Technology

Teaching Plan

(2020 – 2021)

Name of Faculty: Prof. Sonika Anant Chorey

Subject: Free Elective II, IT Ethics & Practices (5FEIT05-II) **Semester**: Vth

Lecture No.	Date	Topic to be Covered	No. of Lectures
		Unit I	
1.	21/08/2020	An Overview of Ethics	6
2.	22/08/2020	Ethics in business world	
3.	22/08/2020	Ethics in business world	
4.	28/08/2020	Ethics in IT , IT Professionals	
5.	29/08/2020	Ethical behavior	
6.	29/08/2020	IT Professional Malpractice, IT Users	
		Unit II	
7.	04/09/2020	IT Security Incidents	6
8.	05/09/2020	Types of Attacks	
9.	05/09/2020	Perpetrators	
10.	11/09/2020	Reducing Vulnerabilities, Risk Assessment	
11.	12/09/2020	Establishing a Security Policy, Educating Employees, Contractors, and Part-Time Workers	
12.	12/09/2020	Prevention, Detection, Response	
		Unit III	
13.	18/09/2020	The Right of Privacy, Recent History of Privacy Protection,	6
14.	19/09/2020	Governmental Electronic Surveillance, Data Encryption, Identity Theft, Consumer Profiling	
15.	19/09/2020	Treating Consumer Data Responsibly, Workplace Monitoring, Spamming, Advanced Surveillance Technology	
16.	25/09/2020	First Amendment Rights, Obscene Speech, Defamation	
17.	26/09/2020	Controlling Access to Information on the Internet, Anonymity	
18.	26/09/2020	National Security Letters, Defamation and Hate Speech	
		Unit IV	
19.	02/10/2020	Intellectual Property, Copyrights	6
20.	03/10/2020	Patents, Trade Secret Laws	
21.	03/10/2020	Plagiarism, Reverse Engineering,	
22.	09/10/2020	Open Source Code, Competitive Intelligence, Cyber squatting	
23.	10/10/2020	Software Development, Strategies to Engineer Quality Software, The importance of Software Quality	
24.	10/10/2020	Software Development Process, Capability maturity Model Integration for Software,	

	Unit V		
25.	16/10/2020	Use of Nontraditional Workers,	6
26.	17/10/2020	Contingent Workers	
27.	17/10/2020	H-IB Workers	
28.	23/10/2020	Whistle-Blowing	
29.	24/10/2020	Protection for Whistle-Blowers,	
30.	30/10/2020	Dealing with a Whistle-Blowing Situation	
	Unit VI		
31.	31/10/2020	The Impact of IT on the Standard of Living and Productivity	6
32.	06/11/2020	The Digital Divide, The Impact of IT on Healthcare Costs	
33.	07/11/2020	ACM	
34.	27/11/2020	AITP	
35.	28/11/2020	Software Engineering Code of Ethics and Professional Practice	
36.	04/12/2020	PMI Member Ethical Standards and Member Code of Ethics	

Subject Teacher

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(Department of Information Technology)

Final Year

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Artificial Intelligence and Expert System (7IT05)
Name of Faculty: - Prof. N. S. Band
Semester :- VII **Section :-** A&B

Lecture No.	Planned Dates	Topic Name	Total hours
		Introduction to Course	
1	17/08/2020	Vision Mission of Institution, Vision Mission of our Department ,Objective of subject, Grading scheme, Text Books and Ref Books, Syllabus and Course Learning Outcomes (CLO),Application and importance of the Subject, Graduate Attributes	**01**
		Unit-1	
2	18/08/2020	Introduction to Artificial Intelligence, The AI Problems.	**08**
3	19/08/2020	The Underlying Assumption.	
4	21/08/2020	What is an AI Technique,	
5	24/08/2020	Problems, Problem Spaces and Search.	
6	25/08/2020	Problem Characteristics	
7	28/08/2020	Production Systems	
8	31/08/2020	Production System Characteristics	
9	01/09/2020	Issues in the Design of Search Programs	
		Unit-2	
10	02/09/2020	Heuristic Search Techniques:	**08**
11	04/09/2020	Generate-and-Test.	
12	07/09/2020	Hill Climbing.	
13	08/09/2020	Best-first Search, A* Algorithm	
14	09/09/2020	Problem Reduction, AND-OR Graphs.	
15	14/09/2020	The AO* Algorithm,	
16	15/09/2020	Constraint Satisfaction.	
17	16/09/2020	Means ends Analysis	
		Unit-3	
18	18/09/2020	Knowledge Representation Issues, Representations and Mappings.	**08**
19	21/09/2020	Approaches to Knowledge Representation,	
20	22/09/2020	Issues in Knowledge Representation, The Frame Problem.	
21	23/09/2020	Predicate Logic: Representing Simple Facts in Logic.	
22	25/09/2020	Representing Instance and ISA Relationships, Computable Functions and Predicates,	
23	28/09/2020	Resolution, Natural Deduction	
24	29/09/2020	Representing Knowledge Using Rules, Procedural Versus Declarative Knowledge	
25	30/09/2020	Logic Programming Forward Versus Backward Reasoning, Matching, Control Knowledge.	
		Unit-4	
26	05/10/2020	Symbolic Reasoning Under Uncertainty, Introduction to Nonmonotonic Reasoning	**07**
27	06/10/2020	Logics for Nonmonotonic Reasoning.	

28	07/10/2020	Implementation Issues, Augmenting a Problem-solver.	
29	09/10/2020	Implementation: Depth-first Search, Breadth first Search.	
30	12/10/2020	Statistical Reasoning Probability and Bayes' Theorem.	
31	13/10/2020	Certainty Factors and Rule-based Systems.	
32	14/10/2020	Bayesian Networks, Semantic Nets, Frames.	
Unit-5			
33	16/10/2020	Understanding :What is Understanding	**08**
34	19/10/2020	Understanding as Constraint Satisfaction.	
35	20/10/2020	Natural Language Processing, Syntactic Processing.	
36	21/10/2020	Semantic Analysis, Discourse and Pragmatic Processing.	
37	23/10/2020	Statistical Natural Language Processing.	
38	26/10/2020	Spell Checking.	
39	2/10/2020	Common Sense Qualitative Physics.	
40	28/10/2020	Common Sense Ontologies.	
Unit-6			
41	02/11/2020	Expert Systems Representing and Using Domain Knowledge:	**08**
42	03/11/2020	Expert System Shells, Explanation.	
43	04/11/2020	Knowledge Acquisition	
44	23/11/2020	**Fuzzy Logic Systems**: Introduction, Crisp Sets, Fuzzy Sets.	
45	24/11/2020	Some Fuzzy Terminology, Fuzzy Logic Control.	
46	25/11/2020	**Genetic Algorithms**: Significance of the Genetic Operators.	
47	27/11/2021	Termination Parameters.	
48	01/12/2021	Evolving Neural Networks.	

Faculty: - Prof.N.S.Band

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(Session 2020-21)

Course Number and Title: - Object Oriented System Analysis & Design(7IT02)
Name of Faculty: - Prof. P. R. Nerkar
Semester:- VII **Section: -A**

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1.	17/08/2020	Vision and Mission, objective of Subject, CO, Graduate attributes	10
2.	18/08/2020	Modeling Concept: Introduction, Object orientation.	
3.	19/08/2020	OO Development, OO themes.	
4.	20/08/2020	Modeling as a design technique,	
5.	24/08/2020	Class Modeling.	
6.	25/08/2020	Abstraction, The three models.	
7.	27/08/2020	Object and class concepts	
8.	31/08/2020	Link and association concepts.	
9.	01/09/2020	Generalization & Inheritance	
10.	02/09/2020	Navigation of class models.	
		Unit-2	
11.	03/09/2020	**Advanced object and class concepts:**	8
12.	07/09/2020	Association Ends, N-ary association.	
13.	08/09/2020	Aggregation, Abstract classes.	
14.	09/09/2020	Multiple inheritances. Metadata, Reification	
15.	10/09/2020	Constraints, Derived data, Packages.	
16.	14/09/2020	State Modeling: Events,	
17.	15/09/2020	States, Transitions and Conditions.	
18.	16/09/2020	State diagrams, State diagram behavior	
		Unit-3	
19.	21/09/2020	**Nested state diagram**: Signal Generalization, Nested	8
20.	22/09/2020	Concurrency,	
21.	23/09/2020	Relation of class and state models.	
22.	24/09/2020	Use case model,	
23.	28/09/2020	Sequence models.	
24.	29/09/2020	Activity models, Use case relationships.	
25.	30/09/2020	Procedural sequence model.	
26.	01/10/2020	Special constructs for activity models.	
		Unit-4	
27.	05/10/2020	**Development stages:**	7
28.	06/10/2020	Development life cycle.	
29.	07/10/2020	Devising a system concepts, Elaborating a concepts.	
30.	08/10/2020	Preparing a problem statements.	
31.	12/10/2020	Overview of analysis., Domain class models	
32.	13/10/2020	Domain state model.	
33.	14/10/2020	Domain Interaction model.	
		Unit-5	
34.	15/10/2020	**Application Analysis:**	8

35.	19/10/2020	Overview of System Design. Estimating Performance.	
36.	20/10/2020	Making a reuse plan, Breaking a system into subsystems.	
37.	21/10/2020	Identifying Concurrency. Allocation of subsystems.	
38.	22/10/2020	Management of data storage, Handling global resources	
39	26/10/2020	Choosing a software control strategy.	
40	27/10/2020	Handling boundary conditions.Setting trade-off priorities.	
41	28/10/2020	Architecture of the ATM system.	
Unit-6			
42	29/10/2020	**Overview of class design**:	**5**
43	02/11/2020	Realizing the use cases. Designing algorithm.	
44	03/11/2020	Recusing Downwards. Refactoring, Design Optimization.	
45	04/11/2020	Reification of behavior. Adjustment of Inheritance.	
46	05/11/2020	Organizing a class design, ATM examples.	

Faculty:- P.R.Nerkar

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Web Technology (7IT03)
Name of Faculty : - S. D. Thakur
Semester: - VII **Section: -** B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	17/8/2020	Discussion on Mission Vision of Department and Institute, PEO's, PO's and PSO's	9
2	19/8/2020	Web Essentials: The internet, Basic Internet Protocols	
3	20/08/2020	The World Wide Web, HTTP Request Massage, HTTP Response Massage	
4	21/08/2020	Web Clients, Web Servers, Markup Languages:XHTML	
5	24/08/2020	Markup Languages: XHTML 1.0,Basics of XHTML	
6	26/08/2020	Fundamentals HTML Elements, Relative URLs	
7	27/08/2020	Lists, Tables, Frames, Forms	
8	28/05/2020	Defining XHTML's abstract syntax: XML	
9	31/08/2020	Creating HTML Documents	
		Unit-2	
10	2/9/2020	Style Sheets: Introduction to Cascading Style Sheets	8
11	3/9/2020	CSS Features	
12	4/9/2020	CSS Core Syntax, Style Sheets and HTML	
13	7/9/2020	Style Rule Cascading and Inheritance	
14	9/9/2020	Text Properties	
15	10/9/2020	CSS Box Model	
16	11/9/2020	Normal Flow Box Layout	
17	14/09/2020	Beyond the Normal Flow	
		Unit-3	
18	16/09/2020	Client-Side Programming: Introduction to Java Scripts Language	8
19	18/09/2020	JavaScript in Perspective, Basic Syntax, Variables and Data types	
20	21/09/2020	Statements, Operators, Literals, Functions, Objects, Arrays, Built-in Objects	

21	23/09/2020	JavaScript Debuggers, Host Objects: Introduction to the DOM	
22	24/09/2020	Intrinsic Event Handling, Modifying Element Style	
23	25/09/2020	The Document Tree, DOM Event Handling	
24	28/09/2020	Accommodation Noncompliant Browsers	
25	30/09/2020	Additional Properties of Window	
Unit-4			
26	1/10/2020	Server-Side Programming	**8**
27	05/10/2020	Java Servlets Servlet Architecture Overview	
28	07/10/2020	Servlet Generating Dynamic Content	
29	08/10/2020	Servlet Life Cycle	
30	09/10/2020	Parameter Data, Sessions	
31	12/10/2020	Cookies	
32	14/10/2020	URI Rewriting, Other Servlet Capabilities	
33	15/10/2020	Data Storage, Servlet and Concurrency	
Unit-5			
34	16/10/2020	Representing Web Data: XML Documents and Vocabularies	**8**
35	19/10/2020	XML Namespaces, JavaScript And XML:Ajax	
36	21/10/2020	Dom-Based XML Processing, EventOriented parsing: SAX	
37	22/10/2020	Transforming XML Documents, Selecting XML Data : XPath	
38	23/10/2020	Template-Based Transformation: XSLT, Displaying XML Documents	
39	28/10/2020	Introduction to Java Server Pages	
40	02/11/2020	JSP and Servlets, Running JSP Applications, Basic JSP	
41	05/11/2020	JavaBeans Classes and JSP, Tag Libraries and Files	
Unit-6			
42	06/11/2020	Web Services: Web Service Concepts	**9**
43	23/11/2020	Writing a Java Web Service	
44	25/11/2020	Writing a Java Web Service Client	
45	26/11/2020	Writing a Java Web Service Client	
46	27/11/2020	Describing Web Services: WSDL	

47	02/12/2020	Describing Web Services: WSDL	
48	03/12/2020	Representing Data Types: XML Schema	
49	03/12/2020	Representing Data Types: XML Schema	
50	03/12/2020	Communicating Object Data :SOAP	
51	04/12/2020	Semantic Web, Rails5, Angular2	Content beyond Syllabus
52	04/12/2020	Internet of Things, Yarn Package Manager	

Faculty: - S. D. Thakur

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Web Technology (7IT03)
Name of Faculty : - Prof. R. M. Hushangabade
Semester: - VII
Section: - A

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	17/08/2020	Discussion on Mission Vision of Department and Institute, PEO's, PO's and PSO's	9
2	18/08/2020	Web Essentials: The internet, Basic Internet Protocols	
3	19/08/2020	The World Wide Web, HTTP Request Massage, HTTP Response Massage	
4	20/08/2020	Web Clients, Web Servers, Markup Languages:XHTML	
5	21/08/2020	Markup Languages: XHTML 1.0,Basics of XHTML	
6	24/08/2020	Fundamentals HTML Elements, Relative URLs	
7	25/08/2020	Lists, Tables, Frames, Forms	
8	27/08/2020	Defining XHTML's abstract syntax: XML	
9	28/08/2020	Creating HTML Documents	
		Unit-2	
10	31/08/2020	Style Sheets: Introduction to Cascading Style Sheets	8
11	02/09/2020	CSS Features	
12	03/09/2020	CSS Core Syntax, Style Sheets and HTML	
13	04/09/2020	Style Rule Cascading and Inheritance	
14	07/09/2020	Text Properties	
15	08/09/2020	CSS Box Model	
16	09/09/2020	Normal Flow Box Layout	
17	10/09/2020	Beyond the Normal Flow	
		Unit-3	
18	11/09/2020	Client-Side Programming: Introduction to Java Scripts Language	8
19	14/09/2020	JavaScript in Perspective, Basic Syntax, Variables and Data types	
20	15/09/2020	Statements, Operators, Literals, Functions, Objects, Arrays, Built-in Objects	
21	16/09/2020	JavaScript Debuggers, Host Objects: Introduction to the DOM	
22	18/09/2020	Intrinsic Event Handling, Modifying Element Style	
23	21/09/2020	The Document Tree, DOM Event Handling	
24	22/09/2020	Accommodation Noncompliant Browsers	
25	23/09/2020	Additional Properties of Window	

Unit-4			
26	24/09/2020	Server-Side Programming	**8**
27	25/09/2020	Java Servlets Servlet Architecture Overview	
28	28/09/2020	Servlet Generating Dynamic Content	
29	29/09/2020	Servlet Life Cycle	
30	30/09/2020	Parameter Data, Sessions	
31	01/10/2020	Cookies	
32	05/10/2020	URl Rewriting, Other Servlet Capabilities	
33	06/10/2020	Data Storage, Servlet and Concurrency	
Unit-5			
34	07/10/2020	Representing Web Data: XML Documents and Vocabularies	**8**
35	08/10/2020	XML Namespaces, JavaScript And XML:Ajax	
36	09/10/2020	Dom-Based XML Processing, EventOriented parsing: SAX	
37	12/10/2020	Transforming XML Documents, Selecting XML Data : XPath	
38	13/10/2020	Template-Based Transformation: XSLT, Displaying XML Documents	
39	14/10/2020	Introduction to Java Server Pages	
40	19/10/2020	JSP and Servlets, Running JSP Applications, Basic JSP	
41	20/10/2020	JavaBeans Classes and JSP, Tag Libraries and Files	
Unit-6			
42	21/10/2020	Web Services: Web Service Concepts	**9**
43	22/10/2020	Writing a Java Web Service	
44	23/10/2020	Writing a Java Web Service Client	
45	26/10/2020	Writing a Java Web Service Client	
46	27/10/2020	Describing Web Services: WSDL	
47	28/10/2020	Describing Web Services: WSDL	
48	29/10/2020	Representing Data Types: XML Schema	
49	01/11/2020	Representing Data Types: XML Schema	
50	02/11/2020	Communicating Object Data :SOAP	
51	03/11/2020	Semantic Web, Rails5, Angular2	Content beyond Syllabus
52	04/11/2020	Internet of Things, Yarn Package Manager	

Faculty: - R. M. Hushangabade

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Prof. Ram Meghe Institute of Technology & Research, Badnera
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Lesson Plan (Session 2020-21)

Course Number and Title: - Real Time Embedded System (7IT04)
Name of Faculty: - Prof. A. A. Gulhane
Semester: -VII **Section: -** A

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	17-08-2020	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	
2	18-08-2020	Introduction to embedded systems	8
3	20-08-2020	Processor in the system, types of processor	
4	21-08-2020	Hardware units required in the exemplary cases	
5	24-08-2020	Software embedded into a system. Final Machine implement able software for a product	
6	25-08-2020	Software in Processor specific assembly language and high level language	
7	27-08-2020	Device drivers device management using an operating systems	
8	28-08-2020	Software design for scheduling multiple tasks and devices using RTOS	
9	31-08-2020	Embedded SoC and in VLSI circuits.	
		Unit-2	
10	01-09-2020	Structural units of the processor	8
11	03-09-2020	Allocation of memory to program segment and blocks	
12	04-09-2020	Memory map of the system	
13	07-09-2020	Memory blocks for different data sets and structures	
14	08-09-2020	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	10-09-2020	Device drivers, Virtual Devices,	
16	11-09-2020	Device drivers for parallel port, serial and timing devices	
17	14-09-2020	Context and periods for context switching, deadline and interrupt latency	

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-3	
18	15-09-2020	Software programming in assembly language and C	8
19	17-09-2020	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	18-09-2020	Use of data structures Function pointers, Function queues and ISR queues	
21	21-09-2020	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	22-09-2020	Use of FIPO queues, Stacks,	
23	24-09-2020	Lists and Ordered Lists	
24	25-09-2020	Embedded Programming in C++	
25	28-09-2020	Embedded Programming in Java	
		Unit-4	
26	29-09-2020	Modeling process, Use of dataflow & control data flow graphs,	7
27	01-10-2020	Programming model for event controlled or response time constraint, Real time programs,	
28	02-10-2020	use of finite states machine model	
29	05-10-2020	finite states machine model-timer, c function	
30	06-10-2020	Petri net Model	
31	08-10-2020	Modeling of Multiprocessor systems	
32	09-10-2020	IPC and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
		Unit-5	
33	12-10-2020	Use of Semaphores for a task or for Critical section of code,	8
34	13-10-2020	Mutex & P & V semaphores	
35	15-10-2020	Priority inversion problems & Deadlock situations	
36	16-10-2020	IPC issues: Use of signals, Use of Semaphore flags	
37	19-10-2020	Use of Mutex as resource key,	
38	20-10-2020	Use of message queues,	
39	22-10-2020	Mailboxes, pipes,	
40	23-10-2020	Virtual sockets, RPCs	

Unit-6			
41	26-10-2020	Introduction to RTOS, OS Services, RTOS Services,	7
42	27-10-2020	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	29-10-2020	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	30-10-2020	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	02-11-2020	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	03-11-2020	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
47	05-11-2020	Performance metrics, IEEE Standard POSIX 1003.1B,	
48	06-11-2020	Fifteen-point' strategy for Synchronization,	

Faculty: - Prof. A. A. Gulhane

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Department of Information Technology

(Session 2020-21)

Course Number and Title:- Digital Signal Processing (7IT01)
Name of Faculty :- Dr. P.V.Ingole Prof. S.V.Dhopte
Semester - VII Section A. and B

Teaching Plan

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit- I	
1	18-8-20	Sampling, Nyquist theorem, Quantization, Analog Signal	8
2	19-8-20	Aliasing effect, A/D convertor Block diagram	
3	20-8-20	ASP system, DSP system with block diagram	
4	21-8-20	Advantages and Application of DSP system	
5	25-8-20	Discrete signal representation, Modified signal	
6	27-8-20	Impulse signal, Unit step signal	
7	28-8-20	Static & Dynamic System ,Time Variant & Time Invariant,	
8	02-9-20	Linear& Non Linear System ,Causal & Non Causal System	
9	03-9-20	Numerical	
		Unit-II	
10	4-9-20	Analysis of LTI System using Convolution Sum ,	9
11	8-9-20	Analytical Method and Tabular Method, Step response	
12	9-9-20	Properties of convolution ,	
13	10-9-20	Analysis of LTI Using Difference equation	
14	11-9-20	Recursive & Non Recursive system	
15	15-9-20	Zero Input and Zero state response	
16	16-9-20	Homogenous solution ,Particular Solution	
17	18-9-20	Numerical	
		Cross Co-correlation, Auto correlation	
		18Unit-III	
18	22-9-20	Z-Transform, ROC	9
19	23-9-20	Properties of Z transform, Linearity	
20	24-9-20	Time Shifting, Time Reversal, Differentiation in Z domain,	
21	25-9-20	Convolution of two sequences, Correlation	
22	29-9-20	Pole Zero Plot	
23	30-9-20	Inverse Z Transformer, Power series Method	
24	01-10-20	Partial Fraction Expansion Method, Residue Method	
25	06-10-20	Steady state response,	
26	07-10-20	Schur-Cohn Stability Test	
		Unit-IV	
27	08-10-20	Fourier transform,	8
28	09-10-20	Discrete Fourier Transform DFT, Numerical	
29	13-10-20	N Point DFT N 4,N 8, Plot Magnitude and Phase spectrum	
30	14-10-20	Twiddle Factor	
31	16-10-20	IDFT, Properties of DFT	
32	20-10-20	Circular Convolution, Relation bet Z transform and DFT	
33	21-10-20	FFT Radix-2 FFT Algorithm, Butter fly Diagram DIT 4	

		2/11point, 8 Point	
34	22-10-20	DIF3/11 4 point, 8 Point	
		Unit-VI	
35	23-10-20	Realization of IIR	6
36	27-10-20	Direct I and II, Cascade form, Parallel form,	
37	28-10-20	Lattice form Signal Flow Graph, Transpose Structure	
38	29-10-20	Numerical Base on Realization	
39	03-11-20	Realization of FIR Filter Direct Form and Cascade Form	
40	04-11-20	Lattice Form . Numerical base on realization	
		Unit-V	
41	05-11-20	Classification of Filter LP, HP, BP,FIR and IIR	8
42	06-11-20	Design of IIR Filter from analog Filter	
43	24-11-20	Analog filters using approximation of derivatives,	
44	25-11-20	Impulse invariant transformation, Bilinear transformation and	
45	26-11-20	Wrapping Effect, Matched z-Transformation	
46	27-11-20	Numerical base on design	
47	1-12-20	,Design Of FIR Filter by windowing Technique	
48	2-12-20	Frequency Sampling Technique	
49	3-12-20	Numerical base on design	
50	4-12-20	Scilab	Content beyond Syllabus
51	8-12-20	Multirate DSP System	

Faculty:- Dr. P.V.Ingole /S. V. Dhopte

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2020-21)

Course Number and Title: - Real Time Embedded Systems (7IT04)
Name of Faculty: - Prof. M. S. Deshmukh
Semester:- VII **Section :-** B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	18-08-20	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	9
2	19-08-20	Introduction to embedded systems	
3	20-08-20	Processor in the system, types of processor	
4	21-08-20	Hardware units required in the exemplary cases	
5	25-08-20	Software embedded into a system Final Machine implement able software for a product	
6	27-08-20	Software in Processor specific assembly language and high level language	
7	28-08-20	Device drivers device management using an operating systems	
8	02-09-20	Software design for scheduling multiple tasks and devices using RTOS	
9	03-09-20	Embedded SoC and in VLSI circuits.	
		Unit-2	
10	04-09-20	Structural units of the processor	8
11	08-09-20	Allocation of memory to program segment and blocks	
12	09-09-20	Memory map of the system	
13	10-09-20	Memory blocks for different data sets and structures	
14	11-09-20	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	15-09-20	Device drivers, Virtual Devices,	
16	16-09-20	Device drivers for parallel port, serial and timing devices	
17	18-09-20	Context and periods for context switching, deadline and interrupt latency	
		Unit-3	
18	22-09-20	Software programming in assembly language and C	8
19	23-09-20	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	24-09-20	Use of data structures Function pointers, Function queues and ISR queues	
21	25-09-20	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	29-09-20	Use of FIPO queues, Stacks,	
23	30-09-20	Lists and Ordered Lists	
24	01-10-20	Embedded Programming in C++	
25	06-10-20	Embedded Programming in Java	

		Unit-4	
26	07-10-20	Modeling process, Use of dataflow & control data flow graphs,	7
27	08-10-20	Programming model for event controlled or response time constraint, Real time programs,	
28	09-10-20	use of finite states machine model	
29	13-10-20	finite states machine model-timer, c function	
30	14-10-20	Petri net Model	
31	16-10-20	Modeling of Multiprocessor systems	
32	20-10-20	Inter process Communication and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
		Unit-5	
33	21-10-20	Use of Semaphores for a task or for Critical section of code,	8
34	22-10-20	Mutex & P & V semaphores	
35	23-10-20	Priority inversion problems & Deadlock situations	
36	27-10-20	IPC issues, Use of signals, Use of Semaphore flags	
37	28-10-20	Use of Mutex as resource key,	
38	29-10-20	Use of message queues,	
39	03-11-20	Mailboxes, pipes,	
40	04-11-20	Virtual sockets, RPCs	
		Unit-6	
41	05-11-20	Introduction to RTOS, OS Services, RTOS Services,	9
42	06-11-20	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	24-11-20	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	25-11-20	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	26-11-20	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	27-11-20	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms	
47	1-12-20	Performance metrics, IEEE Standard POSIX 1003.1B,	Content beyond Syllabus
48	2-12-20	Fifteen-point strategy for Synchronization,	
49	3-12-20	Embedded Linux Kernel	
50	4-12-20	IC Technology	
51	8-12-20	Issues in Design Technology	

Faculty:- Prof. M. S. Deshmukh

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Department of Information Technology

Teaching Plan (Academic Year 2020-21)

Subject:-Object Oriented System analysis and Design

Name of Faculty : Prof. Saleha Saudagar

Semester:-VII Sem 7IT02 **Section:** B

Lecture No.	Planning Date	Topic Name	Total Hours
		Introduction to Course	
1.	17/8/2020	Vision Misson of Institute,Vision Mission for department,Objective of Subject,Grading Scheme, TextBooks and RefBooks,Syllabus and Course Learning Outcomes(CLO), Application and importance of Subject, Graduate Attributes.	1
		UNIT-I:	
2	19/8/2020	Modeling Concept: Introduction to OOAD	8
3	20/08/2020	Object orientation , OO Development, OO themes.	
4	21/08/2020	Modeling as a design technique,	
5	24/08/2020	Class Modeling.	
6	26/08/2020	Abstraction, The three models.	
7	27/08/2020	Object and class concepts	
8	28/05/2020	Link and association concepts.	
9	31/08/2020	Generalization & Inheritance, Navigation of class models.	
		UNIT II	
10	2/9/2020	Advanced object and class concepts	8
11	3/9/2020	Association Ends, N-ary association.	
12	4/9/2020	Aggregation, Abstract classes.	
13	7/9/2020	Multiple inheritances. Metadata, Reification	
14	9/9/2020	Constraints, Derived data, Packages.	
15	10/9/2020	State Modeling: Events,	
16	11/9/2020	States, Transitions and Conditions.	
17	14/09/2020	State diagrams,. State diagram behavior	

UNIT III			
18	16/09/2020	Nested state diagram	8
19	18/09/2020	Signal Generalization, Nested states.	
20	21/09/2020	Relation of class and state models.	
21	23/09/2020	Use case model, Concurrency	
22	24/09/2020	Sequence models.	
23	25/09/2020	Activity models,Special constructs for activity models.	
24	28/09/2020	Use case relationships.	
25	30/09/2020	Procedural sequence model	
UNIT IV			
27	1/10/2020	Development stages: Development life cycle	8
28	05/10/2020	Devising a system concepts.	
29	07/10/2020	Elaborating a concepts.	
30	08/10/2020	Preparing a problem statements.	
31	09/10/2020	Overview of analysis.	
32	12/10/2020	Domain class models	
33	14/10/2020	Domain state model,	
	15/10/2020	Domain Interaction model.	
UNIT V			
34	16/10/2020	Application Analysis:Overview of System Design.	8
35	19/10/2020	Estimating Performance, Making a reuse plan	
36	21/10/2020	Breaking a system into subsystems.	
37	22/10/2020	Identifying Concurrency. Allocation of subsystems.	
38	23/10/2020	Management of data storage, Handling global resources.	
39	28/10/2020	Choosing a software control strategy.	
40	02/11/2020	Setting trade-off priorities,Handling boundary conditions.	
41	05/11/2020	Architecture of the ATM system.	
UNIT VI			
42	06/11/2020	Overview of class design: Realizing the use cases.	9

43	23/11/2020	Designing algorithm.
44	25/11/2020	Recusing Downwards.
45	26/11/2020	Refactoring, Design Optimization.
46	27/11/2020	Reification of behavior.
47	02/12/2020	Adjustment of Inheritance.
48	03/12/2020	Organizing a class design, ATM example

Subject I/C
Prof. Ms.S.I.saudagar

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Department of Information Technology
Teaching Plan: Session 2020-21

Course Name & Code: Analog & Digital Electronics [3IT05]
Name of Faculty: Prof. Avinash G. Mahalle
Year & Semester: Second Year III [A]

Lecture No.	Planned Dates	Topics to be covered	Total Hours
1	18-08-2020	Vision & Mission of Institute, Vision & Mission of Dept. Graduate Attributes, COs & CLOs, Grading Scheme, Text books & reference books, Syllabus	01
		UNIT-1	
2	20-08-2020	Semiconductor Basics	08
3	25-08-2020	Transistors Basics	
4	27-08-2020	Transistor as an amplifier	
5	29-08-2020	Need of biasing	
6	02-09-2020	Potential divider bias circuit	
7	03-09-2020	Faithful amplification of CE amplifier	
8	05-09-2020	Transistor as an electronic switch,	
9	08-09-2020	Construction and working of JFET	
		UNIT-2	
10	09-09-2020	Basics of Operational Amplifier	08
11	10-09-2020	Block diagram of operational amplifier	
12	12-09-2020	Ideal operational amplifier parameters	
13	15-09-2020	Inverting Amplifier	
14	16-09-2020	Non-Inverting Amplifier, Voltage follower	
15	19-09-2020	Summing Amplifier	
16	22-09-2020	Subtractor	
17	23-09-2020	Comparator	
		UNIT-3	
18	24-09-2020	Basics of Oscillator, Barkhausen Criterion	07
19	26-09-2020	RC Phase Shift Oscillator	
20	29-09-2020	Transistor crystal oscillator	
21	30-09-2020	Block diagram of Timer IC 555	
22	01-10-2020	Astable Multivibrator	
23	03-10-2020	Monostable Multivibrator	
24	06-10-2020	Solved Problems	

Lecture No.	Planned Dates	Topic to be covered	Total Hours
		UNIT-4	
25	07-10-2020	Logic Gates	08
26	08-10-2020	Standard logic expression forms: SOP & POS	
27	10-10-2020	Logic expression realization & minimization using K-map	
28	13-10-2020	Two variable K-map	
29	14-10-2020	Three variable K-map	
30	15-10-2020	Four variable K-map	
31	17-10-2020	Half Adder, Full Adder	
32	20-10-2020	Half subtractor, Full subtractor	
		UNIT-5	
33	21-10-2020	Difference between Combinational and Sequential circuits	08
34	22-10-2020	Code convertors (BCD, Excess-3 and Gray)	
35	24-10-2020	Multiplexers	
36	27-10-2020	De-multiplexers	
37	28-10-2020	Decoders	
38	29-10-2020	SR flip-flop	
39	31-10-2020	JK flip-flop	
40	03-11-2020	D flip-flop & T flip-flop	
		UNIT-6	
41	04-11-2020	Difference between Asynchronous and Synchronous sequential circuits	08
42	05-11-2020	Asynchronous Counters	
43	07-11-2020	Up-Counter	
44	24-11-2020	Down-Counter	
45	25-11-2020	Mod Counter	
46	26-11-2020	Working of Shift Registers, SISO	
47	28-11-2020	SIPO, PISO and PIPO	
48	01-12-2020	Application of Shift Register as a Ring Counter	
		Total Lectures Planned	**48**

Prof. A. G. Mahalle

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Course Number and Title: - Discrete Structure (3IT02)
Name of Faculty: - Prof. S. N. Sarda
Semester :- III **Section :- A**

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit- I	
1	17-08-20	Statements & Notation	10
2	19-08-20	Connectives	
3	20-08-20	Normal forms	
4	21-08-20	Equivalences	
5	24-08-20	Principal of DNF	
6	27-08-20	Principal of CNF	
7	28-08-20	Inference Rule	
8	31-08-20	The theory of inference for the statement calculus	
9	02-09-20	Predicate calculus and Problems	
10	03-09-20	The Theory of the Predicate calculus	
		Unit-II	
11	04-09-20	Basic concepts of Set	7
12	07-09-20	Representation of Discrete Structure	
13	09-09-20	Relation	
14	10-09-20	Ordering of Set	
15	11-09-20	Functions	
16	14-09-20	Recursive function.	
17	16-09-20	Sets & Predicates	
		Unit-III	
18	18-09-20	Algebraic Systems	8
19	21-09-20	Semi groups	
20	23-09-20	Monoids	
21	24-09-20	Abelian Group, Cosets & Lagrange's Theorem	
22	25-09-20	Grammars & Languages	
23	28-09-20	Polish expression	
24	30-09-20	Polish expression & their compilation,	
25	01-10-20	Application of Residue Arithmetic to Computers	

		Unit-IV	
26	05-10-20	Lattices.	
27	07-10-20	Partially ordered sets	
28	08-10-20	Lattices as an Algebraic system	
29	09-10-20	Boolean Algebra	
30	12-10-20	Boolean Functions	8
31	14-10-20	Representation of Boolean Functions	
32	15-10-20	Minimization of Boolean Functions	
33	16-10-20	K- Map Representation	
		Unit-V	
34	19-10-20	Graph Theory: Basic concepts of Graph Theory	
35	21-10-20	Graph Theory Paths	
36	22-10-20	Reachability & Connectedness,	
37	23-10-20	Matrix representation of graphs	7
38	26-10-20	Matrix representation of graphs Cont…	
39	28-10-20	Storage Representation and Manipulation of Graphs	
40	29-10-20	Coloring of Graphs.	
		Unit-VI	
41	02-11-20	Basic Concept of Trees,	
42	04-11-20	Tree Searching	
43	05-11-20	Minimal spanning trees	
44	06-11-20	Simple Precedence Grammars rooted tree,	8
45	23-11-20	Expression tree, B tree,	
46	24-11-20	Distance between spanning trees of a graph	
47	25-11-20	PERT and Related Techniques	
48	26-11-20	PERT and Related Techniques Cont…	
49	27-11-20	Remedial classes and Improvement Session	
50	28-11-20	Remedial classes and Improvement Session	

Faculty: - Prof. S.N. Sarda

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Department of Information Technology

Session 2020-21

Teaching Plan

Course Number and Title: - Assembly Language Programming (3IT05)
Name of Faculty: - Prof. Ms. P. V. Dudhe
Semester: - III **Section:-B**

Lecture No.	Planned Dates	Topic Name	
1	17/08/20	Vision Mission of Institute and Department, Objective of Subject, Grading scheme, Text books and Ref. Books, Syllabus and CLO, Graduate Attributes.	10
2	19/08/20	Introduction to Number system(Decimal, Binary, Hexadecimal),	
3	20/08/20	Introduction to Number system(Decimal, Binary, Hexadecimal),	
4	21/08/20	Microprocessor 8086 architecture-BIU and EU	
5	24/08/20	pin configuration of 8086	
6	27/08/20	Software model of 8086, Memory addresses space and data organization	
7	28/08/20	Data types, Segment registers, memory segmentation	
8	31/08/20	IP & Data registers, Pointer, Index registers	
9	2/09/20	Memory addresses generation, Maximum and Minimum Modes.	
10	3/09/20	**Revision Unit I**	
		Unit –II	
11	4/09/20	8086 Instruction set overview	8
12	07/09/20	addressing modes	
13	09/09/20	addressing modes	
14	10/09/20	8086 instruction formats	
15	11/09/20	8086 programming: Integer instructions and computations	
16	14/09/20	Data transfer instructions	
17	16/09/20	Arithmetic instructions and their use in 8086 programming	
18	18/09/20	**Revision Unit II**	
		Unit –III	
19	21/09/20	8086 instructions: logical instructions	

20	23/90/20	Shift and rotate instructions and their use in 8086 programming	8
21	24/09/20	Shift and rotate instructions and their use in 8086 programming.	
22	25/09/20	8086 flag register and Flag control instructions	
23	28/09/20	compare instructions, control flow and jump instructions	
24	30/09/20	Loops & loop handling instructions	
25	1/10/20	8086 programming using these instructions	
26	5/10/20	**Revision Unit III**	
Unit –IV			
27	07/10/20	Stack and Subroutines	8
28	8/10/20	8086 stack segment and stack related instructions	
29	9/10/20	8086 I/O Address space	
30	12/10/20	Subroutines and related instructions	
31	14/10/20	parameter passing, Concept of Macros	
32	15/10/20	Concept of recursion at assembly Program level	
33	16/10/20	8086 programming using subroutines, recursion and macros.	
34	19/10/20	**Revision Unit IV**	
Unit-V			
35	21/10/20	8086 I/O: Types of input output	8
36	22/10/20	Isolated I/O interface	
37	23/10/20	Input output data transfers	
38	26/10/20	I/O instructions and bus cycles	
39	28/10/20	Programmable Peripheral Interface 8255 PPI, pin diagram	
40	29/10/20	Internal organization	
41	02/11/20	modes of operation,	
42	04/11/20	**Revision Unit V**	
Unit –VI			
43	05/11/20	8086 Interrupts, Interrupts types	**6**
44	6/11/20	priority and instructions, Interrupt vector table	
45	23/11/20	External hardware-interrupt interface signals & interrupts sequence, Software interrupts, Non-mask able interrupts.	

46	25/11/20	Programmable Interrupt Controller 8259, pin diagram, internal organization	
47	26/11/20	modes of operations, Introduction to Intel's 32-bit processors	
48	27/11/20	**Revision Unit VI**	
49	2/12/20	Direct Memory Access and DMA-Controlled I/O, Programmable Timer 8253	Contents Beyond the syllabus
50	3/12/20	Programmable Communication Interface 8251A	

Subject Teacher
Ms. P. V. Dudhe

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan: Session 2020-21

Course Name & Code: Object Oriented Programming (3IT03)
Name of Faculty: Prof. Harshal D. Misalkar
Year & Semester: Second Year III SEM [Sec-A]

Lecture No.	Planned Dates	Topics to be covered	Total Hours
1	17-08-2020	Vision & Mission of Institute, Vision & Mission of Dept. PEOs, POs and PSOs, CLOs and COs, Grading Scheme, Text Books & Reference Books, Syllabus	01
		UNIT-1	
2	18-08-2020	Unit I: Introduction to Object Oriented Programming:	
3	20-08-2020	Introduction, Need of OOP	
4	21-08-2020	Principles of Object-Oriented Languages	
5	24-08-2020	Procedural Language Vs OOP, Application of OOP	
6	25-08-2020	Java Compiler, Java Virtual Machine	
7	27-08-2020	Java features, Program Structures.	12
8	28-08-2020	Programming Constructs: Variables, Primitive data types	
9	31-08-2020	Identifier, Literals	
10	01-09-2020	Operators in Java, Types	
11	03-09-2020	Expressions, Precedence Rules and Associativity	
12	04-09-2020	Primitive Type Conversion and Casting	
13	07-09-2020	Flow of Control.	
		UNIT-II	
14	08-09-2020	Classes and Objects: Classes, Objects	
15	10-09-2020	Creating Objects, Methods	
16	11-09-2020	Constructors	
17	14-09-2020	Cleaning up Unused Objects, Class Variable and Methods	08
18	15-09-2020	this keyword	
19	17-09-2020	Arrays	
20	18-09-2020	Arrays	
21	17-09-2020	Command Line Arguments	
		UNIT-III	
22	21-09-2020	Inheritance: Inheritance vs. Aggregation	
23	22-09-2020	Polymorphism, Method Overloading Method Overriding	08
24	24-09-2020	super keyword, final keyword	

25	25-09-2020	Abstract class	
26	28-09-2020	Interfaces	
27	29-09-2020	Packages and Enumeration	
28	01-10-2020	Interface, Packages	
29	05-10-2020	java.lang package, Enum type	
		UNIT-IV	
30	06-10-2020	Exception: Introduction, Exception handling Techniques	
31	08-10-2020	User-defined exception	
32	09-10-2020	Exception Encapsulation and Enrichment	
33	12-10-2020	Input/Output:	
34	13-10-2020	The java.io.file Class	**08**
35	16-10-2020	Reading and Writing data	
36	19-10-2020	Randomly Accessing a file	
37	20-10-2020	Reading and Writing Files using I/O Package	
		UNIT-V	
38	22-10-2020	Applets: Introduction	
39	23-10-2020	Introduction to Applet Class	
40	26-10-2020	Applet structure, Applet Life cycle,	
41	27-10-2020	Common Methods used in displaying the output paint ()	**08**
42	29-10-2020	update () and repaint ()	
43	02-11-2020	More about applet tag	
44	03-11-2020	getDocumentBase () and getCodeBase() methods	
45	05-11-2020	Applet class Methods	
		UNIT-VI	
46	06-11-2020	Event Handling: Introduction, Event delegation Model	
47	23-11-2020	java.awt.event, Sources of events	
48	24-11-2020	Event Listeners	
49	26-11-2020	Adapter classes, Inner Classes	
50	27-11-2020	AWT: Introduction, Components and Containers	**08**
51	01-12-2020	Button, Label, Checkbox, Radio Buttons	
52	03-12-2020	List Boxes, Choice Boxes, Textfield and Textarea	
53	04-12-2020	Container Class, Layouts	
54	07-12-2020	Menu, Scrollbar	
		Total Lectures Planned	**54**

Prof. H. D. Misalkar

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Department of Information Technology

Session:2020-21

Course Number and Title: - Discrete Structure & Graph Theory (3IT02)

Name of Faculty: -Dr. A. S. Alvi

Semester:-III[rd] Sem

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	18-Aug-2020	Statements & Notation	10
2	20-Aug-2020	Connectives	
3	21-Aug-2020	Normal forms	
4	25-Aug-2020	Equivalences	
5	27-Aug-2020	Principal of DNF	
6	28-Aug-2020	Principal of CNF &	
7	29-Aug-2020	Inference Rule	
8	03-Sep-2020	The theory of inference for the statement calculus	
9	04-Sep-2020	Predicate calculus and Problems	
10	05-Sep-2020	The Theory of the Predicate calculus	
		Unit-II	
11	08-Sep-2020	Basic concepts of Set Theory	7
12	10-Sep-2020	Representation of Discrete Structure	
13	11-Sep-2020	Relation	
14	12-Sep-2020	Ordering of Set	
15	15-Sep-2020	Functions , Recursion	
16	17-Sep-2020	Recursive function.	
17	18-Sep-2020	Sets & Predicates	
		Unit-III	
18	19-Sep-2020	Algebraic Systems	7
19	22-Sep-2020	Semi groups	
20	24-Sep-2020	Monoids	
21	25-Sep-2020	Grammars& Languages	
22	26-Sep-2020	Polish expression	
23	29-Sep-2020	Polish expression & their compilation	
24	01-Oct-2020	Application of Residue Arithmetic to Computers.	

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Department of Information Technology

Teaching Plan (2020 – 2021)

3rd Year

Name of Faculty: Prof. Shailesh P. Thakare

Subject: 5FEIT05 (i) Introduction to Computer Networks **Semester:** VI[th]

Lecture No.	Date	Topic to be Covered	No. of Lectures
		Unit I	
1.	21/08/2020	Introduction to Computer Networks	6
2.	22/08/2020	Network Topologies, Ethernet LAN	
3.	22/08/2020	Assembling a Home Network and office LAN	
4.	28/08/2020	Analyzing Computer Networks	
5.	29/08/2020	Physical Layer Cabling: Twisted Pair, Structural Cabling, UTP Cable	
6.	29/08/2020	Terminating CAT6/5E/5UTP cables.	
		Unit II	
7.	04/09/2020	Computer Fundamentals	6
8.	05/09/2020	Computer Bus connection	
9.	05/09/2020	Device Drivers	
10.	11/09/2020	Computer Memory	
11.	12/09/2020	Overview of FAT and NTFS	
12.	12/09/2020	configuring the BIOS boot sequence	
		Unit III	
13.	18/09/2020	Interconnecting the LAN	6
14.	19/09/2020	OSI Model	
15.	19/09/2020	Network Bridge	
16.	25/09/2020	Switch, Router	
17.	26/09/2020	Interconnecting LANs with the Router.	
18.	26/09/2020	Configuring the network interface - Auto-negotiation	
		Unit IV	
19.	02/10/2020	TCP/IP: Layers	6
20.	03/10/2020	Number conversion	
21.	03/10/2020	IPV4 Addressing	
22.	09/10/2020	Subnet masks, CIDR blocks	
23.	10/10/2020	IPV6 Addressing	
24.	10/10/2020	Analyzing computer networks-FTP data packets	
		Unit V	
25.	16/10/2020	Router Configuration, Introduction,	6
26.	17/10/2020	Router fundamentals	
27.	17/10/2020	The console port connection	
28.	23/10/2020	The routers use EXEC Mode, Routers privileged EXEC mode	
29.	24/10/2020	Troubleshooting the router interface	
30.	24/10/2020	Troubleshooting the router interface	
		Unit VI	
31.	30/10/2020	Routing protocols: Static routing,	6
32.	31/10/2020	Dynamic routing protocols,.	
33.	31/10/2020	RIP, IGRP, OSPF,	
34.	06/11/2020	RIP, IGRP, OSPF	
35.	07/11/2020	EIGRP, TFTP	
36.	07/11/2020	Analyzing OSPF "helo" packets	

Subject Teacher

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Department of Information Technology

(Session 2020-2021)

Course Number and Title: - Digital Integrated Circuits (5IT02)

Name of Faculty: - Prof. G.K.Wadnere

Semester: - V **Section:** - B

Lecture No.	Planned Dates	Topic Name	Total Hours
		Unit 1	
1	17/08/2020	Introduction to Vision, Mission, CO & CLO, Graduate Attributes	9
2	18/08/2020	Review of Boolean Algebra	
3	19/08/2020	Boolean Functions & Logic Families: Canonical & Standard Forms	
4	20/08/2020	Digital Logic Gates	
5	21/08/2020	Digital Integrated Circuits: Special Characteristics like	
6	24/08/2020	Bipolar Transistor Characteristics	
8	25/08/2020	TTL, ECL	
9	27/08/2020	MOS & CMOS families: Basic characteristics	
10	28/08/2020	Operation and typical characteristics	
		Unit 2	
11	31/08/2020	Simplification of Boolean functions: The K-Map method, Two Variable, Three Variable	9
12	02/09/2020	Four Variable K-Map	
13	03/09/2020	Five Variable K-Map	
14	04/09/2020	Examples of K-Map	
15	07/09/2020	Implementation using logic gates	
16	08/09/2020	Tabulation Method	
17	09/09/2020	Tabulation Method	
18	10/09/2020	Determination of Prime Implicants.	
19	11/09/2020	Selection of Prime Implicants	
		Unit 3	
20	14/09/2020	Combinational Logic: Introduction	11
21	15/09/2020	Design Procedure	
22	16/09/2020	Adders	
23	18/09/2020	Subtractor	
24	21/09/2020	code Converters	
25	22/09/2020	Code Converters	
26	23/09/2020	Analysis Procedure for Combinational Circuits	
27	24/09/2020	Multilevel NAND Circuits	
28	25/09/2020	Multilevel NOR Circuits	
29	28/09/2020	Exclusive-OR function: Odd function	
30	29/09/2020	Parity generation & Checking.	
		Unit 4	
31	30/09/2020	MSI & PLD Components: Introduction	

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Department of Information Technology

Teaching Plan (Session 2020-21)

Course Number and Title: - COMPUTER ARCHITECTURE AND ORGANIZATION (5IT03)

Name of Faculty: - Prof. A. W. Burange

Semester: - V **Section** :- A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	17/8/20	Introduction to Basic strucutre of computer	9
2	18/8/20	Basic strucutre of computer: Hardware & software	
3	19/8/20	Addressing methods	
4	20/8/20	Program sequencing	
5	21/8/20	concept of memory locations & address	
6	24/8/20	Main memory operation	
7	25/8/20	Instructions & instruction sequencing	
8	27/8/20	Addressing modes	
9	28/8/20	Basic I/O operations, Queues & subroutines	
		UNIT-II	
10	31/8/20	Introduction to Processing Unit: Fundamental concepts	8
11	1/9/20	Execution of a complete instruction	
12	2/9/20	Hardwired control	
13	3/9/20	Performance consideration	
14	4/9/20	Microprogrammed control	
15	7/9/20	Microinstructions, microprogram sequencing	
16	9/9/20	Microinstruction prefetching	
17	10/9/20	Emulation	
		UNIT III	
18	11/9/20	Introduction to I/O organization	9
19	14/9/20	accessing I/O devices	
20	15/9/20	Introduction and study of interrupts	
21	16/9/20	direct memory access : bus arbitration	
22	18/9/20	I/O hardware introduction	
23	21/9/20	processor bus and interfacing circuits	
24	22/9/20	standard I/O interfaces fundamentals	
25	23/9/20	SCSI bus	
26	24/9/20	backplane bus standard	
		UNIT IV	
27	25/9/20	Memory Unit: basic concepts	10
28	28/9/20	semiconductor RAM memories	
29	29/9/20	IP security architecture	
30	30/9/20	Web Security: Web security requirements	
31	1/10/20	internal organization of memory	
32	5/10/20	Static & dynamic RAMs,ROMs	
33	6/10/20	speed, size & cost considerations	

34	7/10/20	Cache memories: performance considerations	
35	8/10/20	Virtual memories, address translation	
36	9/10/20	Memory management requirements	
		UNIT-V	
37	19/10/20	Arithmetic number representation	
38	20/10/20	Arithmetic number representation	
39	21/10/20	design of fast adders	
40	22/10/20	signed addition and subtraction	
41	23/10/20	Multiplication of positive numbers	**8**
42	26/10/20	Booths' algorithm	
43	27/10/20	Integer division.	
44	28/10/20	Floating-point numbers and related operations.	
		UNIT-VI	
45	29/10/20	Introduction to Computer Peripherals	
46	2/11/20	Computer Peripherals: Input-output devices like video displays, video terminals	
47	3/11/20	graphics input devices and printers	
48	4/11/20	Introduction to Online storage devices	**6**
49	5/11/20	Online storage devices: magnetic disks	
50	6/11/20	magnetic tape systems, CD-ROM systems, Communication devices : Modems	

Faculty: - Prof. A.W. Burange

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Department of Information Technology

(Session 2020-2021)

Course Number and Title: - Digital Integrated Circuits (5IT02)

Name of Faculty: - Prof. R. P. Fuke

Semester: - V **Section: -** A

Lecture No.	Planned Dates	Topic Name	Total Hours
		Unit 1	
1	17/08/2020	Introduction to Vision, Mission, CO & CLO, Graduate Attributes	9
2	18/08/2020	Review of Boolean Algebra	
3	19/08/2020	Boolean Functions & Logic Families: Canonical & Standard Forms	
4	20/08/2020	Digital Logic Gates	
5	21/08/2020	Digital Integrated Circuits: Special Characteristics like	
6	24/08/2020	Bipolar Transistor Characteristics	
8	25/08/2020	TTL, ECL	
9	27/08/2020	MOS & CMOS families: Basic characteristics	
10	28/08/2020	Operation and typical characteristics	
		Unit 2	
11	31/08/2020	Simplification of Boolean functions: The K-Map method, Two Variable, Three Variable	9
12	02/09/2020	Four Variable K-Map	
13	03/09/2020	Five Variable K-Map	
14	04/09/2020	Examples of K-Map	
15	07/09/2020	Implementation using logic gates	
16	08/09/2020	Tabulation Method	
17	09/09/2020	Tabulation Method	
18	10/09/2020	Determination of Prime Implicants.	
19	11/09/2020	Selection of Prime Implicants	
		Unit 3	
20	14/09/2020	Combinational Logic: Introduction	11
21	15/09/2020	Design Procedure	
22	16/09/2020	Adders	
23	18/09/2020	Subtractor	
24	21/09/2020	code Converters	
25	22/09/2020	Code Converters	
26	23/09/2020	Analysis Procedure for Combinational Circuits	
27	24/09/2020	Multilevel NAND Circuits	
28	25/09/2020	Multilevel NOR Circuits	
29	28/09/2020	Exclusive-OR function: Odd function	
30	29/09/2020	Parity generation & Checking.	
		Unit 4	
31	30/09/2020	MSI & PLD Components: Introduction	

32	01/10/2020	Binary Parallel Adder	10
33	05/10/2020	Binary Adder-Subtractor	
34	06/10/2020	Decimal adder	
35	07/10/2020	BCD Adder	
36	08/10/2020	Magnitude Comparator	
37	09/10/2020	2 bit Comparator	
38	12/10/2020	Decoders, Encoders	
39	13/10/2020	ROM, Various types of ROMs	
40	14/10/2020	Programmable Logic Arrays, Programmable Array Logic	
		Unit 5	
41	19/10/2020	Synchronous Sequential Circuits: Introduction	12
42	20/10/2020	Flip Flops: Basic Circuits	
43	21/10/2020	SR, JK Master – Slave	
44	22/10/2020	D & T Flip Flop,	
45	23/10/2020	Triggering of Flip Flops	
46	26/10/2020	Analysis of Clocked sequential circuits	
47	27/10/2020	State Reduction & assignment	
48	28/10/2020	Flip Flop excitation table	
49	29/10/2020	Design procedure for sequential circuit	
50	01/11/2020	Design of counters: Ripple Counters	
51	02/11/2020	Synchronous Counters	
52	03/11/2020	Asynchronous Counters	
		Unit 6	
53	04/11/2020	Types of Shift Registers	6
54	05/11/2020	Shift Registers	
55	23/11/1900	RAM: Static & Dynamic RAM	
56	24/11/2020	Algorithmic State Machines: Introduction	
57	25/11/2020	Algorithm and State Machine	
58	26/11/2020	ASM Charts	
59	01/12/2020	Improvement Classes + Remedial Classes	Content Beyond Syllabus
60	02/12/2020	Problems on ASM Charts and Flow diagrams	
61	03/12/2020	Designing a complex Sequential Circuits.	

Subject Teacher
Prof. R.P.Fuke

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Prof. Ram Meghe Institute of Technology & Research, Badnera
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(Session 2020-21)

Course Number and Title: - Object Oriented Programming (3IT03)
Name of Faculty: - Prof. P. P. Deshmukh
Semester :- III **Section :-** B

Lecture NO.	Planned Dates	Topic Name	Total Hours
		Unit No. I	
1	18/8/2020	Vision, Mission of Institute and Department PEO & PO and PSO of Department	11
2	19/8/2020	CLO and CO of subject explanation and discussion	
3	21/8/2020	Introduction to Object Oriented Programming: Introduction, Need of OOP	
4	25/8/2020	Principles of Object-Oriented Languages, Procedural Language Vs OOP, Application of OOP	
5	26/8/2020	Java Virtual Machine, Java features, Program Structures.	
6	28/8/2020	Java Programming Constructs: Variables, Primitive data types	
7	29/8/2020	Identifier, Literals, Operators	
8	2/9/2020	Expressions, Precedence Rules and Associativity	
9	4/9/2020	Primitive Type Conversion and Casting	
10	5/9/2020	Flow of Control (if, if else, if else if , switch-case)	
11	8/9/2020	Flow of Control (while, do-while , for , break, continue)	
		Unit No. II	
12	9/9/2020	Classes and Objects: Classes, Objects	9
13	11/9/2020	Creating Objects, Methods	
14	12/9/202	More on Creating Objects, Methods	
15	15/9/2020	Constructors	
16	16/9/2020	Cleaning up Unused Objects, Class Variable and Methods	
17	18/9/2020	this keyword	
18	19/9/2020	Arrays (Single dimension)	
19	22/9/2020	Arrays (Multidimensional & passing arrays to method)	
20	23/9/2020	Command Line Arguments	
		Unit No. III	
21	25/9/2020	Introduction to Inheritance	9
22	26/9/2020	Inheritance v/s Aggregation	
23	29/9/2020	Polymorphism, Method Overloading	
24	30/9/2020	Method Overriding	
25	3/10/2020	super keyword, final keyword	
26	6/10/2020	Abstract class	
27	7/10/2020	Interfaces	

28	9/10/2020	Packages and Enumeration: Interface, Packages	
29	10/10/2020	java.lang package, Enum type.	
		Unit No. IV	
30	13/10/2020	Exception: Introduction	**8**
31	14/10/2020	Exception handling Techniques	
32	16/10/2020	User-defined exception	
33	17/10/2020	Exception Encapsulation and Enrichment	
34	20/10/2020	Input/Output: The java.io.file Class	
35	21/10/2020	Reading and Writing data	
36	23/10/2020	Randomly Accessing a file	
37	24/10/2020	Reading and Writing Files using I/O Package	
		Unit No. V	
38	27/10/2020	Applets: Introduction, Applet Class	**7**
39	28/10/2020	Applet structure, Applet Life cycle,	
40	31/10/2020	Common Methods used in displaying the output paint ()	
41	3/11/2020	update () and repaint ()	
42	4/11/2020	More about applet tag	
43	6/11/2020	getDocumentBase () and getCodeBase() methods	
44	7/11/2020	**Programming Practice**	
		Unit No. VI	
45	24/11/2020	Event Handling: Introduction, Event delegation Model	**10**
46	25/11/2020	java.awt.event Description , Sources of events, Event Listeners	
47	27/11/2020	Adapter classes, Inner Classes	
48	28/11/2020	Abstract Window Toolkit: Introduction, Components and Containers	
49	1/12/2020	Button, Label, Checkbox, Radio Buttons	
50	2/12/2020	List Boxes, Choice Boxes, Textfield and Textarea	
51	4/12/2020	Container Class, Layouts, Menu, Scrollbar	
52	5/12/2020	Container Class, Layouts, Menu, Scrollbar	
53	8/12/2020	Content beyond syllabus	
54	9/12/2020	Content beyond Syllabus	

Subject Teacher

Prof. Pranjali P. Deshmukh

Head
Deptt. of Information Technology
A.K.M.I.T. & R. Bachelor-Amravati.

HOD

Department of Information Tech.

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan (Session 2020-21)

Course Number and Title: - COMPUTER ARCHITECTURE AND ORGANIZATION (5IT03)

Name of Faculty: - Prof. H.D.Kale

Semester: - V

Section :- A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	17/08/2020	Introduction to Basic strucutre of computer	**10**
2	18/08/2020	Basic strucutre of computer: Hardware & software	
3	19/08/2020	Addressing methods	
4	20/08/2020	Program sequencing	
5	21/08/2020	concept of memory locations & address	
6	24/08/2020	Main memory operation	
7	25/08/2020	Instructions & instruction sequencing	
8	27/08/2020	Addressing modes	
9	28/08/2020	Basic I/O operations, Queues & subroutines	
10	31/08/2020	Revision UNIT-I	
		UNIT-II	
11	02/09/2020	Introduction to Processing Unit: Fundamental concepts	**9**
12	03/09/2020	Execution of a complete instruction	
13	04/09/2020	Hardwired control	
14	07/09/2020	Performance consideration	
15	08/09/2020	Microprogrammed control	
16	09/09/2020	Microinstructions, microprogram sequencing	
17	10/09/2020	Microinstruction prefetching	
19	11/09/2020	Emulation	

19	14/09/2020	Revision UNIT-II	
UNIT III			
20	15/09/2020	Introduction to I/O organization	**10**
21	16/09/2020	accessing I/O devices	
22	18/09/2020	Introduction and study of interrupts	
23	21/09/2020	direct memory access : bus arbitration	
24	22/09/2020	I/O hardware introduction	
25	23/09/2020	processor bus and interfacing circuits	
26	24/09/2020	standard I/O interfaces fundamentals	
27	25/09/2020	SCSI bus	
28	28/09/2020	backplane bus standard	
29	29/09/2020	Revision UNIT-III	
UNIT IV			
30	30/09/2020	Memory Unit: basic concepts	**11**
31	01/10/2020	semiconductor RAM memories	
32	05/10/2020	IP security architecture	
33	06/10/2020	Web Security: Web security requirements	
34	07/10/2020	internal organization of memory	
35	08/10/2020	Static & dynamic RAMs,ROMs	
36	09/10/2020	speed, size & cost considerations	
37	12/10/2020	Cache memories: performance considerations	
38	13/10/2020	Virtual memories, address translation	
39	14/10/2020	Memory management requirements	
40	19/10/2020	Revision UNIT-IV	
UNIT-V			
41	20/10/2020	Arithmetic number representation	**9**
42	21/10/2020	Arithmetic number representation	

43	22/10/2020	design of fast adders	
44	23/10/2020	signed addition and subtraction	
45	26/10/2020	Multiplication of positive numbers	
46	27/10/2020	Booths' algorithm	
47	28/10/2020	Integer division.	
48	29/10/2020	Floating-point numbers and related operations.	
49	01/11/2020	Revision UNIT-V	
		UNIT-VI	
50	02/11/2020	Introduction to Computer Peripherals	**9**
51	03/11/2020	Computer Peripherals: Input-output devices like video displays, video terminals	
52	04/11/2020	graphics input devices and printers	
53	05/11/2020	Introduction to Online storage devices	
54	23/11/1900	Online storage devices: magnetic disks	
55	24/11/2020	magnetic tape systems	
56	25/11/2020	CD-ROM systems	
57	26/11/2020	Communication devices : Modems	
58	01/12/2020	Revision UNIT-VI	
59	02/12/2020	GATE Questionnaire	Content beyond syllabus
60	03/12/2020		

Faculty: - Prof. H.D.Kale

HOD
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[illegible] Amravati.

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan (Session 2020-21)

Course Number and Title: - 5IT01 Operating Systems (ODD SEM)

Name of Faculty: - Prof. Umesh V. Nikam
Semester: - 5th **Section: -** A

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	17/8/20	**Introduction:** Operating System(OS) definition, OS Evolutions	**06hrs**
2	18/8/20	OS Services, Process Concept, Process Scheduling, Operations on Processes	
3	19/8/20	Cooperating Processes, Inter-process Communication,	
4	20/8/20	Inter-process Communication	
5	21/8/20	Threads Overview	
6	24/8/20	Multithreading Models, Threading Issues,. Java Threads	
		UNIT-II	
7	25/8/20	CPU Scheduling Concepts,	**11hrs**
8	27/8/20	Scheduling Criteria and Algorithms	
9	28/8/20	Scheduling Criteria and Algorithms	
10	31/8/20	Scheduling Criteria and Algorithms	
11	1/9/20	Scheduling Criteria and Algorithms	
12	2/9/20	Process Synchronization:	
13	3/9/20	The Critical-Section Problem	
14	4/9/20	Synchronization Hardware	
15	7/9/20	Semaphores, Monitors	
16	9/9/20	Deadlocks: Definition & Characterization, Deadlocks Prevention	
17	10/9/20	Avoidance, Detection and Recovery from Deadlock.	
		UNIT III	
18	11/9/20	Memory Management Background	**10hrs**
19	14/9/20	Swapping	
20	15/9/20	Contiguous Memory Allocation Schemes	
21	16/9/20 18/9/20	Paging, Segmentation	
22	21/9/20	Virtual Memory Management: Background	
23	22/9/20	Demand Paging scheme	
24	23/9/20	Process Creation	
25	24/9/20	Page Replacement Policies	
26	25/9/20	Allocation of Frames, Thrashing.	
		UNIT-IV	
27	28/9/20	File-System Interface; Directory Structure	**06hrs**
28	29/9/20	File-System Mounting, File Sharing & Protection.	
29	30/9/20	File- System Structure, File-System Implementation	
30	01/10/20	Directory Implementation	
31	5/10/20	Allocation Methods	
32	6/10/20	Free-Space Management, File Recovery	

		UNIT-V	
33	7/10/20	I/O Systems: Overview	**07hrs**
34	8/10/20	I/O Hardware	
35	9/10/20	Application I/O Interface	
36	19/10/20	Kernel I/O Subsystem	
37	20/10/20	Transforming I/O to Hardware Operations	
38	21/10/20	Disk Scheduling, Disk Management	
39	22/10/20	Swap-Space Management, RAID Structure.	
		UNIT-VI	
40	23/10/20	The Linux System; History	**7hrs**
41	26/10/20	Design Principles	
42	27/10/20	Kernel Modules, Process Management,	
43	28/10/20	Scheduling, Memory Management	
44	29/10/20	File Systems, Input and Output	
45	2/11/20	Inter-process Communication,	
46	3/11/20	Network Structure & Security in Linux	
47	4/11/20	Content Beyond Syllabus GATE Questions Discussion	
48	5/11/20	Content Beyond Syllabus GATE Questions Discussion	
49	6/11/20	Content Beyond Syllabus GATE Questions Discussion	

Faculty: - Prof. Umesh V. Nikam

HOD
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Department of Information Technology
P.R.M.I.T.& R.Badnera-Amravati.

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3102/F Banking system

SUBJECT TEACHER: Prof. G.S.KAlMEGH

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	Study Material & cases Link	No. of Periods Allotted	Remark
I	1	9/16/2021	Banking system in India-INTRODUCTION	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	..\UNIT I -banking system-CASE STUDY.docx	1	Total Lectures for Unit I: 7
	2	9/21/2021	Indigenous Bankers, Commercial Banks, Co-operative Banks,			1	
	3	9/23/2021	Regional Rural Banks-Private Sector Banks, Foreign Bank			1	
	4	9/25/2021	Banking Sector Reforms,			1	
	5	9/28/2021	Primary, Secondary and Subsidiary			1	
	6	9/30/2021	Functions of Banks,Banking Innovation,			1	
	7	10/5/2021	case study on banking syetem			1	
II	1	10/7/2021	Banking Regulation	Vasant Desai, Bank Management, Himalaya Publishing House.	..\unit II-case study on NPA.docx	1	Total Lectures for Unit II: 7
	2	10/9/2021	Banking business, Capital requirement, management			1	
	3	10/12/2021	licensing, new branches, loans and advances,			1	
	4	10/14/2021	NPA'S, Acquisition of Business,			1	
	5	10/16/2021	Winding up and Amalgamation,			1	
	6	10/21/2021	major issues of banking, Bank Management			1	
	7	10/23/2021	case study on NPA				
III	1	10/26/2021	Central Banking: Concept and Meaning, Major Central Ba	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	..\unit III -banking system-case study.docx	1	Total Lectures for Unit III: 8
	2	10/28/2021	Reserve Bank of India, it's role and functions,			2	
	3	11/30/2021	Banking Regulation by RBI,			1	
	4	11/9/2021	RBI & Agricultural Credit,			1	
	5	11/11/2021	Industrial Finance			1	
	6	11/13/2021	Bill Market System			1	
	7	11/16/2021	case studies on banking regulation			1	

IV	1	11/18/2021	Commercial Banking: Introduction,Concept and Scope,	Vasant Desai, Bank Management, Himalaya Publishing House.	..\unit IV-banking system-case study.docx	1	Total Lectures for Unit IV: 8
	2	11/20/2021	concept of Commercial Banking			1	
	3	11/23/2021	Risk Management			1	
	4	11/25/2021	Functions and Services of Commercial Banks,			1	
	5	11/27/2021	Credit Management,			1	
	6	11/30/2021	Installation and			1	
	7	12/2/2021	Significance of Sound Credit Culture			1	
	8	12/4/2021	Case Studis on companies legal compliances			1	
V	1	12/7/2021	Upcoming Issues in Banking,	S. Gurusamy, "Banking Theory: Law and Practices," Tata McGraw Hill 2nd Ed., 2009.	..\unit v Case study.docx	1	Total Lectures for Unit V: 7
	2	12/9/2021	Customer Services, , CRM,			1	
	3	12/11/2021	Human Resource Management,			1	
	4	12/14/2021	Financial Management,			1	
	5	12/6/2021	Marketing Management of banking services,			1	
	6	12/18/2021	New Trend inBanking			1	
	8	12/21/2021	Case Studis on CRM			1	
							Total Lectures : 37

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3105/F Investment Science

SUBJECT TEACHER: Prof. k.s.bijawe

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	9/20/2021	Investment - Introduction , Significance	1. Preeti Singh, Investment Management, Himalaya Publishing House. 2. V.A. Avadhani Investment Mgmt, Himalaya Publishimh House	1	Total Lectures for Unit I: 7
	2	9/22/2021	Saving , Investment , Gambling		1	
	3	9/24/2021	Meaning , Objectives, and significance & Mechanism of Investment		1	
	4	9/27/2021	Issue and dilemmas of investment		1	
	5	9/29/2021	Investment option and opportunities		1	
	6	10/1/2021	Investment risk and return		1	
	7	10/4/2021	Indian Investment Scenario		1	
II	1	10/8/2021	Investment Market and Intermediaries	1. Preeti Singh, Investment Management, Himalaya Publishing House. 2. V.A. Avadhani Investment Mgmt, Himalaya Publishimh House	1	Total Lectures for Unit II: 8
	2	10/11/2021	Money Market		1	
	3	10/13/2021	Instrument of Money market		1	
	4	10/18/2021	Capital Market		1	
	5	10/20/2021	Stock Market Function		1	
	6	10/22/2021	Performance indian Stock Market		1	
	7	10/25/2021	Listing of security in Stock Market		1	
	8	10/27/2021	Stock Market and Economic Scenario		1	
III	1	10/29/2021	Theory of Interest	1. Preeti Singh, Investment Management, Himalaya Publishing House. 2. V.A. Avadhani Investment Mgmt, Himalaya Publishimh House	1	Total Lectures for Unit III: 7
	2	11/12/2021	Time Value Consideration(concepts and numaricals)		1	
	3	11/15/2021	Evaluation of Investment of opportunities		1	
	4	11/17/2021	NPV(concepts and numaricals)		1	
	5	11/22/2021	IRR(concepts and numaricals)		1	
	6	11/24/2021	IRR(Numaricals)		1	
	7	11/26/2021	NPV Vs IRR		1	
IV	1	12/1/2021	Investment Valuation	1. Preeti Singh, Investment Management, Himalaya Publishing House. 2. V.A. Avadhani Investment Mgmt, Himalaya Publishimh House	1	Total Lectures for Unit IV: 7
	2	12/3/2021	Valuation of Debt securities(concepts and numaricals)		1	
	3	12/6/2021	Bond Valuation(concepts and numaricals)		1	
	4	12/8/2021	YTM(concepts and numaricals)		1	
	5	12/10/2021	YTM(Numaricals)		1	
	6	12/13/2021	Valuation of Debenture(concepts and numaricals)		1	
	7	12/15/2021	Tax Consideration in Investment		1	

V	1	12/17/2021	Valuation of Share Investment(concepts and numaricals)	1. Preeti Singh, Investment Management, Himalaya Publishing House. 2. V.A. Avadhani Investment Mgmt, Himalaya Publishimh House	1	Total Lectures for Unit V: 7
	2	12/20/2021	Valuation of Preference Share(concepts and numaricals)		1	
	3	12/22/2021	Valuation of Preference Share(Numaricals)		1	
	4	12/24/2021	Valuation of Equity Share(concepts and numaricals)		1	
	5	12/27/2021	Valuation of Equity Share(Numaricals)		1	
	6	12/29/2021	Dividend Valuation Model (concepts and numaricals)		1	
	7	12/31/2021	Dividend Valuation Model (Numaricals)		1	
						Total Lectures : 36

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3101/ Indian Financial System

SUBJECT TEACHER: Dr Ravisha Kapdiya

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I Financial System	1	9/16/2021	Introduction to IFS	Bharti V Pathak:- Indian financial system Markets, Institutions and Services, Pearson Education Vasant Desai.:- Fundamentals Indian financial System HPH	1	Total Lectures for Unit I: 7
	2	9/17/2021	Structure of Indian financial system		1	
	3	9/20/2021	Functions of Indian financial system		1	
	4	9/23/2021	Economic development and major issues in IFS		1	
	5	9/24/2021	Saving Investment and capital accumulation		1	
	6	9/27/2021	Case study : Financial Crises		1	
	7	9/30/2021	Case study: Saving & Investment		1	
II Financial Markets	1	10/1/2021	Working of financial Markets	Dr M. A Kohak, Dr K. Misra Prof.Bhivpathaki Advanced Financial Management, Everest Publishing House M Vora :- Indian financial system, Anmol Publications	1	Total Lectures for Unit II: 9
	2	10/4/2021	Trends of Money Market		1	
	3	10/7/2021	Capital Market		1	
	4	10/8/2021	Capital Market		1	
	5	10/11/2021	Debt Market		1	
	6	10/14/2021	Bill Market		1	
	7	10/18/2021	Foreign Exchange Market		1	
	8	10/21/2021	Case study: Tool for controlling money supply by RBI- The Variable Reserve Ratio		1	
	9	10/22/2021	Case study on Investment in capital Market		1	
III Financial Market Intermediaries	1	10/25/2021	Role and significance of stock exchanges	Bharti V Pathak:- Indian financial system Markets, Institutions an Services, Pearson Education V.A. Avadani- Capital Market management ,HPH	1	Total Lectures for Unit III: 7
	2	10/28/2021	NSE		1	
	3	10/29/2021	BSE		1	
	4	11/11/2021	Discount and finance house of India and OTC		1	
	5	11/12/2021	SEBI		1	
	6	11/15/2021	Case study: Listing on NSE		1	
	7	11/18/2021	Minicase: BSE Index Committee revised the Index.		1	

IV Financial Institution	1	11/22/2021	Working and function of RBI	S. Natarajan, R. Parameshwaran Indian Banking, S.Chand Gurusamy, "Banking Theory, Law and Practices," Tata McGraw Hill.	1	Total Lectures for Unit IV: 10
	2	11/25/2021	Commercial banking		1	
	3	11/26/2021	Commercial banking		1	
	4	11/29/2021	Non –banking financial institutions and companies		1	
	5	12/2/2021	Development bank		1	
	6	12/3/2021	Life insurance		1	
	7	12/6/2021	Life insurance		1	
	8	12/9/2021	General insurance		1	
	9	12/10/2021	Case Study: LICI and other private LIC		1	
	10	12/13/2021	Minicase on Banking Operations		1	
V Financial Instruments	1	12/16/2021	Features and importance of treasury bills	Dr M. A Kohak, Dr K. Misra Prof.Bhivpathaki Advanced Financial Management, Everest Publishing House H.R. Machiraja, Indian Financial System, Vikas Publication house	1	Total Lectures for Unit V: 8
	2	12/17/2021	Certificates of deposits		1	
	3	12/20/2021	Commercial paper		1	
	4	12/23/2021	Hawala		1	
	5	12/24/2021	Case study on Hawala		1	
	6	12/27/2021	Case study on Short term sources of fund – commercial papers.		1	
	7	12/30/2021	Session on MCQ's		1	
	8	12/31/2021	Doubt clearing session		1	
						Total Lectures : 41

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3103/ Working Capital Management

SUBJECT TEACHER: Dr Ravisha Kapdiya

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I Working Capital Management	1	9/16/2021	Introduction & Concept of Working Capital Management	Dr Periasamy Working Capital Management :Theory and Practice, HPH M Y Khan Financial Management: Text, problems and cases, McGraw Hill Education	1	Total Lectures for Unit I: 8
	2	9/17/2021	Importance of Working Capital Management		1	
	3	9/18/2021	Kinds of Working Capital Management & Factors Determining Working Capital Management		1	
	4	9/23/2021	Operating Cycle of Working Capital Management (Concept)		1	
	5	9/24/2021	Operating Cycle of Working Capital Management-Numerical		1	
	6	9/25/2021	Working capital Committees		1	
	7	9/30/2021	Estimating Working Capital Management: Numerical		1	
	8	10/1/2021	Minicase on working capital of Crimson Industries Ltd		1	
II Cash management	1	10/7/2021	Introduction & Motives of Management of Cash	Baneerjee Dr. R.P., Working Capital Management, Everest Publishing House. P V Kulkarni , B G Satyaprasad: Financial Management, HPH.	1	Total Lectures for Unit II: 8
	2	10/8/2021	Requirement of Cash in Business, Cash Management System		1	
	3	10/9/2021	Marketable Securities		1	
	4	10/14/2021	Cash Management Models		1	
	5	10/16/2021	Managing the Cash flows Numerical - Cash Flow Statement		1	
	6	10/21/2021	Numerical - Fund Flow Statement		1	
	7	10/22/2021	Numerical on Cash-Budget		1	
	8	10/23/2021	Minicase on Concentration banking system		1	

III Liquidity Management	1	10/28/2021	Introduction on Managing Corporate Liquidity, Concepts of Financial Flexibility	Bhalla, V.K., Working Capital Management : Text and Cases, 4th ed., Delhi, Anmol, 2001 Dhiraj Sharma: Working Capital Management. HPH.	1	Total Lectures for Unit III: 9
	2	10/29/2021	Managing Corporate Liquidity & Financial Flexibility		1	
	3	10/30/2021	Liquidity Ratios		1	
	4	11/11/2021	Liquidity - Profitability & financial flexibility		1	
	5	11/12/2021	Measuring of Liquidity		1	
	6	11/13/2021	Determining the Optimum Level of Cash Balance		1	
	7	11/18/2021	Liquidity Models		1	
	8	11/20/2021	Numerical on Baumol Model		1	
	9	11/25/2021	Numerical on Benanek Model		1	
IV Inventory Management	1	11/26/2021	Introduction of Inventory Management	and Working Capital Management Handbook, McMillan Dr Periasamy Working Capital Management: Theory and Practice, HPH	1	Total Lectures for Unit IV: 7
	2	12/2/2021	Benefits & cost of holding Inventories		1	
	3	12/3/2021	Need of Inventories		1	
	4	12/4/2021	Kinds of Inventories		1	
	5	12/9/2021	Inventory Control Model		1	
	6	12/10/2021	Numerical on Inventory Management		1	
	7	12/11/2021	Case study on optimum level of safety stock		1	
V Receivable Management	1	12/16/2021	Introduction of Receivable Management	Dhiraj Sharma: Working Capital Management, HPH P V Kulkarni ,B G Satyaprasad: Financial Management, HPH.	1	Total Lectures for Unit V: 8
	2	12/17/2021	Objectives & Cost of maintaining Receivables		1	
	3	12/18/2021	Formulation of Credit Policies of Receivable Management		1	
	4	12/23/2021	Control of Account Receivable: Traditional Approach		1	
	5	12/24/2021	Control of Account Receivable: Modern Approach		1	
	6	12/30/2021	Collection Policies of Receivable Management		1	
	7	12/31/2021	Minicase on Credit Policy		1	
	8	1/1/2022	MCQ's & doubt clearing session		1	
						Total Lectures : 40

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Management Studies (M.B.A.)

(Odd Semester 2020-2021)

Date	Unit	Topic	Topic with detail course outlines	Text and References	No. of	Remark
9/16/2021		**1**	Resources		**2**	
9/17/2021		**2**	excellence		**1**	
9/18/2021		3	Human resource planning	Human Resource Management:P.Subba Rao	1	
9/23/2021	**I**	4	Human resource information system		1	
9/24/2021		5	Recruitment and selection strategies		1	
9/25/2021		6	A Case Study of Tech Mahindra on Recruitm		1	
			Total		7	
10/30/2021		1	Concept, Multiple Goals		2	Page. No:
10/1/2021		2	Functions And Organizational Effectiveness		1	23-25,
10/2/2021		3	Performance Appraisal System	Human Resource Management:P.Subba Rao	1	115-121,
10/7/2021	**II**	4	Planning		1	131-137,
10/8/2021		5	Career Planning And Development		1	180-186,
10/14/2021		6	Assessment And Development Centers,Traini		1	152-168,
10/15/2021		7	Videos, Case Lets-succession planning ,train		1	
			Total		**8**	
10/16/2021		1	At Work-Concept,		2	256-264,
10/21/2021		2	Objectives, Types And Applications		1	393-397,
10/22/2021		3	Participative Management-Approaches And A	Human Resource Management:P.Subba Rao,	1	63-65,
10/23/2021		4	Employee Empowerment-Concept, Nature,		2	
10/28/2021		5	Objectives, Schemes And Applications.		1	
10/29/2021	**III**	6	Case on employee empowerment dell,deloitte		1	
			Total		**8**	
10/30/2021		**1**	Maintenance of Human Resources		**2**	**201-208**
11/4/2021		**2**	Reward System		**1**	
11/5/2021	**IV**	**3**	Quality of Work Life	Human Resource Management:P.Subba Rao,	**1**	
11/6/2021		**4**	Organisation Development		**1**	
11/11/2021		**5**	Case on HRD intervention ,Reward system &		1	
					6	
11/12/2021		**1**	Human Resources and Knowledge Era		**1**	
11/13/2021		**2**	Knowledge Creation and Management		**1**	**201-208**
11/18/2021		**3**	Virtual Organizations and HR Trends	Human Resource Management:P.Subba Rao,	**1**	
11/19/2021	**IV**	**4**	Learning Organizations		**1**	
11/20/2021		**5**	Strategic Human Resource Management		**1**	
11/25/2021		**6**	International HRM-some Key issues		1	
11/26/2021		**7**	Case-design a HRD strategy		1	
			Total		7	
			Schedule Lecture		**36**	

Department of Management Studies					
Semester –III (Session 2021-2022)					
Lesson Plan					
Subject: Compensation Management			**Teacher: Prof. Yuvaraj Vaidya**		
Unit No.	**Topic No.**	**Topic with detail course outlines**	**Text and References**	**Page Number**	**No. of Periods Allotted**
I	1	Compensation Management: Concept	Compensation Management by Dr Kanchan Bhatia	1-17.	2
	2	Components	Compensation by G. Milkovich, J. Newman & C Ratnam	08-12.	1
	3	Theories	Compensation Management by Dr Kanchan Bhatia	61-78	1
	4	Reward Management	Compensation Management by Dr Kanchan Bhatia	235-239	2
	5	Case Study	Case Study University QP Summer-2020 4.W 2 798		1
II	6	Diagnosis of compensation problem	Compensation Management by Dr Kanchan Bhatia	13-32	2
	7	Meaning and necessity of Benchmarking	Compensation Management by Dr Kanchan Bhatia	13-32	2
	8	commitments	Salary and wages Administration		1
	9	internal & external equity in compensation system	Compensation by G. Milkovich, J. Newman & C Ratnam	52-75, 160-185	2
	10	Case study	University Question Papers Q No-2 b & d, Summer 2018 AU- l6l 8		1
III	11	Compensation Packages	Compensation by G. Milkovich, J. Newman & C Ratnam	358-386	2
	12	Tools in Designing Compensation Packages	Compensation by G. Milkovich, J. Newman & C Ratnam	358-386	1
	13	Implementing Compensation Packages	http://www.busgurus.ca/media/pdf/Compensation-Plans-en.pdf		1
	14	Improving Compensation Packages	http://businessfinancemag.com/hr/6-ways-improve-compensation-management		
	15	Designing Compensations Packages	Compensation by G. Milkovich, J. Newman & C Ratnam	52-73	2
	16	Case Study	University Question Papers Q No-3 b & d, Summer 2018 AU- l6l 8		1
IV	17	Components of compensation	Compensation by G. Milkovich, J. Newman & C Ratnam	358-386	2
	18	Fringe Benefits	Compensation by G. Milkovich, J. Newman & C Ratnam	358-420	2
	19	Incentives	Compensation by G. Milkovich, J. Newman & C Ratnam	253-280	1
	20	Retirement Benefits	Compensation Management by Dr Kanchan Bhatia	134-143	1
	21	Case Study	University Question Paper AQ-13s6A Summer-2016 Q 4 b and d		1
V	22	Strategic Compensation System	Compensation by G. Milkovich, J. Newman & C Ratnam	24-47	2
	23	compensation practices of public limited	Compensation by G. Milkovich, J. Newman & C Ratnam	531-549	1
	24	compensation practices of institutional	Salary and wages Administration		1
	25	corporate & public sector companies.	Compensation by G. Milkovich, J. Newman & C Ratnam	531-549	2
	26	Case Study	University Question Paper AQ-13s6A Summer-2016 Q 5		1

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Management Studies (M.B.A.)
Subject - MIR **(Odd Semester 2020-2021)**

Sr.No.	Unit	Topic	Topic with detail course outlines	Text and References	No. of	Remark
9/20/2021		**1**	IR Introduction & Industrial Relations Perspectives	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.sinha,Indu bala,sinha,Indu bala	**1**	
9/21/2021		**2**	Importance of IR		**1**	
9/22/2021		3	Socio Economic Conditions		1	
9/27/2021	**I**	4	IR & Socio Economic Scenario –I		1	
9/28/2021		5	IR & Socio Economic Scenario –II		1	
9/29/2021		6	IR & State		1	
10/4/2021		7	Case on IR Factories Act		1	
			Total		7	
10/5/2021		1	Role of Trade Union	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.sinha,Indu bala,sinha,Indu bala	1	
10/6/2021		2	Future of Trade Unions		1	
10/11/2021		3	Employee Perspectives		1	
10/12/2021		4	Trade Union & Employees		1	
10/13/2021	**II**	5	Trade Union & Management		1	
10/18/2021		6	Role Of Management		1	
10/19/2021		7	Trade Union in MNC's.		1	
10/20/2021		8	Case on trade union leader		1	
			Total		**8**	
10/25/2021		1	Grievance Discipline,	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.sinha,Indu bala,sinha,Indu bala	1	
10/26/2021		2	Grievance Conflicts,		1	
10/27/2021		3	Grievance Dispute		1	
11/1/2021	**III**	4	Grievance Management,		1	
11/2/2021		5	Negotiation		1	
11/3/2021		6	Collective Settlements.		1	
11/15/2021		7	Case on grievance settlement procedure,negotiate as		1	
			Total		**7**	
11/16/2021		**1**	Participative Management	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.sinha,Indu bala,sinha,Indu bala	**1**	
11/17/2021		**2**	Techniques Scope And Importance		**1**	
11/22/2021		**3**	Co-Ownership		**1**	
11/23/2021	**IV**	**4**	Productive Bargaining – I		**1**	
11/24/2021		**5**	Productive Bargaining - II		**1**	
11/29/2021		**6**	Case on participation in management		1	
					6	
11/30/2021		**1**	IR , Employees Empowerment - I	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.sinha,Indu bala,sinha,Indu bala	**2**	
12/1/2021		**2**	Employee Empowerment - II		**1**	
12/6/2021		**3**	Quality Circles,		**1**	
12/7/2021	**IV**	**4**	IR & Technological Change,		**1**	
12/8/2021		**5**	Conciliation arbitrations adjudication		**1**	
12/13/2021		**6**	role of labour administration.		1	
12/14/2021		7	Case on employee empowerment		1	
			Total		8	
			Schedule Lecture		**36**	

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3306 PERFORMANCE MANAGEMENT

SUBJECT TEACHER: Prof. P. A. Kalmegh

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	Study Material & cases Link	No. of Periods Allotted	Remark
I	1	9/18/2021	Overview of HRM Capital and performance appraisal,	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	https://docs.google.com/document/d/1Je6fAqBJ4iG0QPfXWrtK1KlUJcOmncli/edit?usp=sharing&ouid=100135622136334923480&rtpof=true&sd=true	1	Total Lectures for Unit I: 7
	2	9/20/2021	Evolution of concept of performance management			1	
	3	9/21/2021	PMS & Business strategy			1	
	4	9/25/2021	Concept and perspectives of performance management			1	
	5	9/27/2021	Concept and perspectives of performance management			1	
	6	9/28/2021	Meaning, Nature and scope of Performance Management.			1	
	7	10/4/2021	Case Study-Role of HR functions in PMS			1	
II	1	10/5/2021	Principles of Performance Management,	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	https://docs.google.com/document/d/1Je6fAqBJ4iG0QPfXWrtK1KlUJcOmncli/edit?usp=sharing&ouid=100135622136334923480&rtpof=true&sd=true	1	Total Lectures for Unit II: 7
	2	10/9/2021	Models of Performance Management			1	
	3	10/11/2021	performance management			1	
	4	10/12/2021	Imperatives, Antecedents of PM			1	
	5	10/16/2021	determinants and elements of PM			1	
	6	10/18/2021	Challenges to performance management			1	
	7	10/23/2021	Case Study on PM Challenges			1	
III	1	10/25/2021	Performance Management System: Concept, Nature	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	https://docs.google.com/document/d/1Je6fAqBJ4iG0QPfXWrtK1KlUJcOmncli/edit?usp=sharing&ouid=100135622136334923480&rtpof=true&sd=true	1	Total Lectures for Unit III: 8
	2	10/26/2021	Performance Management System:Objectives, Functions			1	
	3	10/30/2021	Electronic Performance Management			1	
	4	11/13/2021	Effective performance management system			1	
	5	11/15/2021	Competency based performance management System and recent developments			1	

	6	11/16/2021	Competency based performance management System and recent developments			1	
	7	11/20/2021	Performance Counseling-Concept, Principles and Skills			1	
	8	11/22/2021	Case Study on PM counseling			1	
IV	1	11/23/2021	Performance Management Process: Performance Planning-Definition, Objectives, characteristics and process.	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	https://docs.google.com/document/d/1Je6fAqBJ4iG0QPfXWrtK1KlUJcOmncli/edit?usp=sharing&ouid=100135622136334923480&rtpof=true&sd=true	1	Total Lectures for Unit IV: 8
	2	11/27/2021	Performance Management Plan			1	
	3	11/29/2021	Competency Mapping- Methods and Applications, Linkages to performance planning.			1	
	4	11/30/2021	Process of performance managing			1	
	5	12/4/2021	Performance Appraisal-Meaning, Principles, Process, Effective Design			1	
	6	12/6/2021	Performance Monitoring: Definition, Characteristics,Objectives, Process and Practices.			1	
	7	12/7/2021	Mentoring-Concepts and Applications & Performance Management Audit.			1	
	8	12/11/2021	Case Study on appraisal process			1	
V	1	12/13/2021	Performance Management Implementation: Bottlenecks,Strategies, Operationalization.	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	https://docs.google.com/document/d/1Je6fAqBJ4iG0QPfXWrtK1KlUJcOmncli/edit?usp=sharing&ouid=100135622136334923480&rtpof=true&sd=true	1	Total Lectures for Unit V: 8
	2	12/14/2021	Building & Leading high performance team, Organizational Culture and Performance Management			1	
	3	12/18/2021	Performance Management Link Reward System-Objectives, components, job performance with job satisfaction			1	
	4	12/20/2021	High performance teams. HR, Ethics and Performance Management			1	
	5	12/21/2021	Operationalizing Change through Performance Managemen			1	
	6	12/27/2021	Role of HR in Performance Management			1	
	7	12/28/2021	Ethics and Performance Management.			1	
	8	1/1/2022	Case Study on PM & Reward			1	
							Total Lectures : 38

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MTD

SUBJECT TEACHER: Prof. S.R.Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References
I	0.1	Training – a change agent,	"Training & Development Methods" by Dr. Rishipal & Scholary Articles
	0.2	Training Environment	
	0.3	Pre - Training module	
	0.4	Counseling for Training,	
	0.5	Training Costs and Training Investment	
	0.6	Case Study	
II	1	Training Functions, Training Needs Assessment	"Training & Development Methods" by Dr. Rishipal & Lynton and Pareek
	1.1	Action Research	
	1.2	Organizational Objectives and Training	
	1.3	Case Study	
III	2	Learning Process	"Training & Development Methods" by Dr. Rishipal
	2.1	Training Climate	
	2.2	Development and Designing Training Modules	
	2.3	Case Study	
IV	3	Training Methods	"Training & Development Methods" by Dr. Rishipal & Scholary Articles
	3.1	Techniques & Pedagogy	
	3.2	Training aids & Tools	
	3.3	Facilities for Training	
	3.4	Case Study	
V	4	Training Feedback and Evaluation	"Training & Development Methods" by Dr. Rishipal & Journals
	4.1	Training Audit	
	4.2	Training as Continuous Process	
	4.3	Case Study	
			Total Lec

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No. of Periods Allotted	Remark
2	Total Lectures for Unit I: 8
2	
1	
1	
1	
1	
2	Total Lectures for Unit II: 7
2	
2	
1	
2	Total Lectures for Unit III: 7
2	
2	
1	
2	Total Lectures for Unit IV: 7
2	
1	
1	
1	
2	Total Lectures for Unit V: 8
2	
2	
2	
:tures Required: 37	

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PRMIT&R

Department of Management Studies(MBA)

Session Plan 2021-2022

Advertising Management

Subject Teacher: Prof. Rajkumar K Dhanuka

Sr. No.	Date	cture Numb	Unit No.	Topic	ReferenceBook/ URL
1	16/09/21	1	Unit No - I	Nature of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
2	23/09/21	2		Type & Functions of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
3	24/09/21	3		Scope and Role of Advertising in Market Place	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
4	25/09/21	4		Economic Aspects of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
5	30/09/21	5		Ethical and Social Aspects of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
6	1/10/2021	6		Case Lets & Case Study > Iconic Fevicol Ads	https://www.coursehero.com/file/33915474/MarketingManagement-CaseStudy-Fevicoldoc/
7	7/10/2021	7		Case Lets & Case Study > Paid Advertising done by flipkart during pandemic	https://iide.co/case-studies/flipkart-marketing-strategy-case-study/
8	8/10/2021	8		Marketing Communication	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
9	9/10/2021	9		Process of Communication & its flow	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)

10	14/10/2021	10	Unit No - II	Types of Communication Systems	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
11	16/10/2021	11		Models Advertising Effect Models	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
12	21/10/2021	12		Models Advertising Effect Models	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
13	22/10/2021	13		Case Lets & Case Study> Communication strategy of Flipkart with Big billion sale	University Question Papers AQ1351A
14	23/10/2021	14		Case Lets & Case Study> Communication strategy of coca cola where Aamir khan as a brand ambassador	University Question Papers AS 271
15	28/10/2021	15	Unit No - III	Advertising Planning & Objectives	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
16	29/10/2021	16		DAGMAR Approach	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
17	30/10/2021	17		Building of Advertising Program – Message, Headlines, Copy, Logo, Illustration, Appeals, Layout	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
18	11/11/2021	18		Building of Advertising Program – Message, Headlines, Copy, Logo, Illustration, Appeals, Layout	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
19	12/11/2021	19		Case Lets & Case Study > Advertising planning for circus and lauching of daily newspaper	University Question Papers AM-945-MBA-Sem-III-Advertising-Management
20	13/11/2021	20		Case Lets & Case Study> Local Jewellary shop compting with big giants , order placed for design ad copy	University Question Papers AQ1351A
21	18/11/2021	21		Media Planning & Strategies	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
22	26/11/2021	22		Media Buying – Broadcast & Print	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House

23	27/11/2021	23	Unit No - IV	Media Buying – Broadcast & Print	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
24	2/12/2021	24		Advertising Budget -Allocation	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)
25	10/12/2021	25		Advertising Budget – Approaches	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
26	11/12/2021	26		Advertising Budget –Influencing Factors	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
27	16/12/2021	27		Case Lets & Case Study > Advertising budget allocation for a leather shop	University Question Papers AM-945-MBA-Sem-III-Advertising-Management
28	17/12/2021	28		Case Lets & Case Study > Advertising media and media vehicles used for educational cds and dvds and interior decoraton furniture	University Question Papers AN-993-MBA-Sem-III-Advertising-Management
29	18/12/2021	29	Unit No - V	Advertising Campaign Planning	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
30	23/12/2021	30		Advertising Organization – Selection	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
31	24/12/2021	31		Compensation & Appraisal of Advertising Agencies	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
32	25/12/2021	32		Compensation & Appraisal of Advertising Agencies	S A Chunawalla & K C Sethia , Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House
33	30/12/2021	33		Web Advertising	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)
34	31/12/2021	34		Case Lets & Case Study >web advertising option used by O & M India-Online ad of tata sky	University Question Papers AP 271

35	1/1/2022	35		Case Lets & Case Study>Advertising Strategy and effectiveness used by HUL Pears soap advt	University Question Papers AQ1351A

Department of Management Studies
Semester –III (Session 2021-2022)
Subject: Brand Management
SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Scheduled Date(tentative)	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
1	1	16-09-2021 & 23-09-21	Concept of Brand	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	2	Total Lectures for Unit I:9
	2	24-09-2021 & 25-09-21	Brand Evolution		2	
	3	30-09-21 & 01-10-21	Brand Hierarchy		2	
	4	07-10-21 & 08-10-21	Brand Identity, Brand Image		2	
	5	10/9/2021	Caselet on Brand Image		1	
2	1	10/14/2021	Brand Peronsonality	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	1	Total Lectures for Unit II:8
	2	16-10-21 & 21-10-21	Brand Positioning & Repositioning		2	
	3	22-10-21 & 23-10-21	Brand Equity		2	
	4	28-10-21 & 29-10-21	Types of Branding- Product, Line, Range, Umbrella & Endorsement Branding		2	
	5	10/30/2021	Caselet on Brand Portfolio		1	

3	1	11-11-21 & 12-11-21	Brand Creation	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	2	Total Lectures for Unit III:8
	2	13-11-21 & 18-11-21	Brand product Relationship		2	
	3	11/20/2021	Brand Portfolio		1	
	4	11/25/2021	Brand Elimination		1	
	5	11/26/2021	Brand Revitalisation		1	
	6	11/27/2021	Caselet on Brand Product Relationship		1	
4	1	2-12-21 & 3-12-21	Managing Brands	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	2	Total Lectures for Unit IV:6
	2	4-12-21 & 9-12-21	Brand Extensions		2	
	3	12/11/2021	Financial Aspects of Brands		1	
	4	12/16/2021	Caselet on Brand extension		1	
5	1	12/17/2021	Branding in Retailers	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	1	Total Lectures for Unit V:5
	2	12/18/2021	Branding in Services		1	
	3	12/23/2021	Branding in High-tech Products		1	
	4	24-12-21 & 30-12-21	Caselet on Branding strategies in Clothing		2	
				Total Lectures	**36**	

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: MBA/3203 - MKT -Consumer Behaviour

SUBJECT TEACHER: Prof. A. V. Deshmukh

Unit No.	Topic No.	Date	Topic with detail course outlines	Text and References	Study Material & cases Link	No. of Periods Allotted	Remark
I	1	9/20/2021	Introduction to consumer behaviour	1. Consumer Behaviour : Engel, Blackwell, Thompson Publications	Notes and Study Material displayed on Institute Moodle site	1	Total Lectures for Unit I: 7
	2	9/21/2021	Acivities/ elements of consumer behaviour			1	
	3	9/22/2021	Evolution of consumer behaviour			1	
	4	9/27/2021	Marketing strategy & consumer behaviour	2. Consumer Behaviour Schiffman & Kanuk, Pearson Education		1	
	5	9/28/2021	Marketing strategy & consumer behaviour			1	
	6	9/29/2021	Concept of consumer involvement & decision makin			1	
	7	10/4/2021	**Case Study:Old Spice-Campaign-Consumer Inv. & Decision Making**			1	
II	1	10/5/2021	Concept of consumer decision making process	1. Consumer Behaviour : Mr. Kalra & Mr Batra	Notes and Study Material displayed on Institute Moodle site	1	Total Lectures for Unit II: 8
	2	10/6/2021	Information search & it's evaluation			1	
	3	10/11/2021	Decision rules, purchase & post purchase evaluatio			1	
	4	10/12/2021	Concept of consumer motivation	2. Consumer Behaviour-Text & Cases, Nair, Suja, Himalaya Publishing		1	
	5	10/13/2021	Theories of motivation			1	
	6	10/18/2021	Concept of consumer perception			1	
	7	10/20/2021	Theories of consumer perception				
	8	10/25/2021	**Case Study: Perception Analysis of Online Shopping of amazon.com**			1	
	1	10/26/2021	Consumer attitude formation & change	1. Consumer Behaviour-Text & Cases, Nair, Suja,		1	

	2	10/27/2021	Models of attitude formation	Himalaya Publishing		1	
	3	11/15/2021	Personality- Meaning, characteristics & factors			1	
III	4	11/16/2021	Theories of personality	2.Consumer Behaviour Schiffman & Kanuk, Pearson Education	Notes and Study Material displayed on Institute Moodle site	1	Total Lectures for Unit III: 7
	5	11/17/2021	Psychographics- it's impact on buying behavior			1	
	6	11/22/2021	Lifestyle- it's influence on buying behavior			1	
	7	11/23/2021	**Case Study : CONSUMER ATTITUDE TOWARDS Domino Pizza outlet at Class C Towns in India**				
	1	11/24/2021	Diffusion of Innovation- factors & process	1 Consumer Behaviour Schiffman & Kanuk, Pearson Education		1	
	2	11/29/2021	Opinion Leadership- Characteristics, promotional st			1	
	3	11/30/2021	Role of family in consumer decision making		Notes and Study Material displayed on Institute Moodle site	1	
IV	4	12/1/2021	Family life cycle stage, strategies adopted by spouse	2. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing		1	Total Lectures for Unit IV: 6
	5	12/6/2021	Reference groups- types & it's influence			1	
	6	12/7/2021	**Case Study: Role of family for buying four wheelers cars in Indian Market**			1	
	1	12/8/2021	Industrial buying- Meaning & participants	1. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing		1	
	2	12/13/2021	Buying decisions & characteristics of industrial buy			1	
	3	12/14/2021	Stages in industrial buying process.			1	
V	4	12/15/2021	Consumer behavior models- Howard Sheth	2. Consumer Behaviour : Engel, Blackwell, Thompson Pub.	Notes and Study Material displayed on Institute Moodle site	1	Total Lectures for Unit V: 8
	5	12/20/2021	Nicosia & EBM models of consumer behaviour			1	
	6	12/21/2021	Sheth model of industrial buying			1	
	7	12/22/2021	Consumer behavior studies in India			1	
	8	12/27/2021	**Case Study : Purchase decision of Inventory in small scale industries**			1	

Total Lectures : 36

	CASE STUDY LINK
Case Study:Old Spice-Campaign-Consumer Inv. & Decision Making	www. Economicstimes.com
Case Study: Perception Analysis of Online Shopping of amazon.com	www. amazon .india.com
Case Study : CONSUMER ATTITUDE TOWARDS Domino Pizza outlet at Class C Towns in India	www.businessworld.com
Case Study: Role of family for buying four wheelers cars in Indian Market	www.icmr.org
Case Study : Purchase decision of Inventory in small scale industries	www.msmeindia.org

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: International Marketing Strategy

SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Scheduled Date(tentative)	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	9/20/2021	Introduction to International Markets	International Marketing – Francis Cherunilam & Rungman A.M. & Hodgettts R.M., International Business	1	Total Lectures for Unit I: 7
	2	9/21/2021	Expansion of International Markets, Motives for International Marketing		1	
	3	9/22/2021	International Marketing Decisions		1	
	4	9/27/2021	Scope of Marketing ,Indian Products Abroad		1	
	5	28-09-2021 & 29-09-21	Multinational Enterprises ,International Culture & International Trade		2	
	6	9/29/2021	Caselet on scope Indian product abroad		1	
II	1	10/4/2021	Global Strategy Planning	International Marketing – Francis Cherunilam & Rungman A.M. & Hodgettts R.M., International Business	2	Total Lectures for Unit II: 8
		10/5/2021				
	2	11-10-21 & 12-10-21	Political Risk & Negotiation Strategy		2	
	3	10/13/2021	Market Selection		1	
	4	10/18/2021	Market Entry Strategies		1	
	5	10/20/2021	Market Coverage Strategies		1	
	6	10/25/2021	Caselet on Market Entry & Coverage Strategy		1	
III	1	10/26/2021	International Product Decisions- Product , Product Mix, Product Life Cycle	International Marketing – Francis Cherunilam & Rungman A.M. & Hodgettts R.M., International Business	1	Total Lectures for Unit III: 7
	2	10/27/2021	International Product Decisions- New Product Development, Business Environment & Strategies		1	
	3	11/8/2021	International Pricing Decisions – Pricing Objectives, Factors affecting Pricing		1	
	4	11/9/2021	International Pricing Decisions- Pricing Methods, Information required for Pricing		1	
	5	10-11-21 & 15-11-21	International Distribution Decisions- International Channel System, Types of Intermediaries		2	

	6	11/16/2021	Case-study on Product & Pricing Decisions		1	
IV	1	11/17/2021	International Marketing Intelligence- Information requirement, Market Research	International Marketing – Francis Cherunilam & Rungman A.M. & Hodgettts R.M., International Business	1	Total Lectures for Unit IV: 7
	2	11/22/2021	International Marketing Intelligence- Methods of Data Collection, Problems in International Research		1	
	3	23-11-21 & 24-11-21	International Promotion- Promotion Strategies, Major Decisions in International Communications		2	
	4	29-11-21 & 30-11-21	Export Procedures & Documents		2	
	5	12/1/2021	Caselet on International Marketing Intelligence		1	
V	1	12/6/2021	Quality Control & Pre-Shipment Inspection	International Marketing – Francis Cherunilam & Rungman A.M. & Hodgettts R.M., International Business	1	Total Lectures for Unit V: 7
	2	12/7/2021	Issues in International Business		1	
	3	08-12-21 & 13-12-21	Business Ethics, Social Responsibility Of Business		2	
	4	14-12-21 & 15-12-21	Environmental Issues ,		2	
	5	12/20/2021	Labour Issues		1	
				Total Lectures Required	**36**	

Department of Management Studies

Semester –III (Session 2021-2022)

Subject: Sales and Distribution Management

SUBJECT TEACHER: Prof. S.R.Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	0.1	Global and Domestic scenerio of Sales Management & Sales Organization	"Sales Management" by Pradip Kumar Malik	1	Total Lectures for Unit I: 8
	0.2	importance I		1	
	0.3	importance II		1	
	0.4	Sales Functions and Sales Policies		1	
	0.5	Opportunity in Personal Selling- I		1	
	0.6	Opportunity in Personal Selling- II		1	
	0.7	Global Sales Management		1	
	0.8	Case Study		1	
II	1	Effective Sales Planning	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit II: 7
	1.1	Sales Budgets - How it impact Organisation and Sales Force		1	
	1.2	Importance of effective Forecasting Sales-I		1	
	1.3	Importance of effective Forecasting Sales-II		1	
	1.4	Sales Quotes for proper Sales Management		1	
	1.5	Sales and Cost Analysis		1	
	1.6	Case Study		1	
III	2	Recruitment and orientation of Sales Personnel-I	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit III: 9
	2.1	Recruitment and orientation of Sales Personnel-II		1	
	2.2	Sales Force : Time and Territory Management		1	
	2.3	Importance of Compensation for Sales Personnel		1	
	2.4	Sales Force Importance of Motivation- I		1	
	2.5	Sales Force Importance of Motivation- I		1	
	2.6	Leadership in Sales Force		1	
	2.7	Performance Evaluation of Sales Force		1	
	2.8	Case Study		1	
IV	3	Importance of Logistics; Distribution as Marketing	"Distribution Management" by Tapan K Panda	1	Total Lectures for Unit IV: 7
	3.1	Effective Planning of Distribution through channel		1	
	3.2	Marketing Channel Integration		1	
	3.3	Distribution Channels Management		1	
	3.4	Performance Evaluation of Distribution Channels		1	
	3.5	Tele Marketing and Web Marketing		1	
	3.6	Case Study		1	
V	4	Channel Conflicts in Distribution Management	"Distribution Management" by Tapan K Panda	1	Total Lectures for Unit V: 6
	4.1	Channel Information Systems - I		1	
	4.2	Channel Information Systems - II		1	
	4.3	Recent trends in Wholesaling and Retailing		1	
	4.4	Ethical and Social Issues in SDM		1	
	4.5	Case Study		1	
			Total Lectures Required: 37		

Signature of the Faculty Member