

Department of Civil Engineering					
Semester – VI (Session 2021-2022)					
Subject: Design of steel Structures Subject Code:6CE01 Section: A					
SUBJECT TEACHER: Prof. P.S.Pajgade					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	• Introduction to WSM, LSM & Plastic analysis of steel structure, plastic hinge, plastic moment capacity, shape factor, plastic section modulus.	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd.	8	Total Lectures for Unit I: 14
	2	• Design of bolted & welded connections subjected to axial and eccentric loading (In the plane of group of Bolts & Weld).	M. L. Gambhir, Fundamentals of Structural Steel Design.	6	
II	1	• Design of Compression & Tension member.	Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	6	Total Lectures for Unit II: 12
	2	• Design of Industrial shed.		6	
III	1	• Design of simple & compound columns for axial loading.	Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	4	Total Lectures for Unit III: 8
	2	• Design of column bases (Slab base & Gusseted base) subjected to axial load.		4	
IV	1	• Design of simple Beams (laterally supported).	Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	4	Total Lectures for Unit IV: 6
	2	• Design of compound Beams (laterally supported).		2	
			Total Lectures Required	40	
Department of Civil Engineering					
Semester – III (Session 2021-2022)					
Subject: Building Construction & Materials					
SUBJECT TEACHER: Prof. S. V. Dharpal					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
	1	Introduction: Definition, types of buildings as per national building code, components of buildings and their functions,	Building Construction: Sushil Kumar	2	Total Lectures
	2	Types of structure - load bearing & framed structures.		2	

I	3	Foundation: Definition and necessity, loads of foundation, Bearing Capacity soil, field methods of improving bearing capacity.		2	for Unit I: 8
	4	Types of foundation - shallow foundation and Types of Shallow foundation.		1	
	5	Causes of failure of foundations and precautions to be taken.		1	
II	1	Masonry: Classification of bricks, manufacturing of bricks, tests on bricks.	Building Construction: Sushil Kumar	2	Total Lectures for Unit II: 8
	2	bricks, properties of burnt bricks, fly ash bricks, ALC Blocks.		2	
	3	Brick masonry construction - Technical terms, general principles, commonly used types of bonds such as stretcher, header, English bond and Flemish bond, their suitability.		1	
	4	Formwork: Different types, their relative merits, demerits, period for removal of formwork for different members.		2	
	5	Earthquake resistant bands in Masonry- Types, location and application.		1	
III	1	Floors: Types of Floors ± Basement floor, ground floor and upper floors,	Building Construction: Sushil Kumar	1	Total Lectures for Unit III: 8
	2	floors, Floor finishes ± Types of flooring material, different types of floor finishes, suitability,		2	
	3	Method of construction, criteria for selection. Roofs- Flat, pitched roof, steel roof trusses- types and suitability,		2	
	4	Arches, lintels ± Types and their Suitability. types of roof covering.		2	
	5	Details of R.C.C. lintels. chajja, precast lintels arches.		1	
IV	1	Doors: Purpose, criteria for location, size of door, door frames.; its types, methods of fixing,	Building Construction: Sushil Kumar	2	Total Lectures for Unit IV: 8
	2	Types of door shutters and their suitability,		2	
	3	Windows -Purpose, criteria for location, no., sizes; shapes of Windows, types of windows; their suitability.		2	
	4	Ventilators - Types and their suitability.		1	
	5	Fixtures & fastening for doors and windows.		1	
V	1	Stairs- Function, technical terms, criteria for location, types of staircases, their suitability,	Building Construction: Sushil Kumar	2	Total Lectures for Unit V: 8
	2	Principle of stair layout design.		2	
	3	Plastering - Necessity, types, processes of different types of plastering, defects in plastered work.		2	
	4	Scaffolding ± Purpose, types and suitability.		2	

VI	1	Fire proof construction -Fire protection requirements for a multistoried building.	Building Construction: Sushil Kumar	1	Total Lectures for Unit VI: 8
	2	Sound proof Construction -Sound absorbents and their characteristic.		1	
	3	Expansion & construction joints in building.		1	
	4	Introduction - Different branches of Geology and importance of Geology in Civil Engineering.		1	
	5	Folds, faults, joints in Geology.		1	
	6	Geology. Geological studies related to site selection for dams and reservoirs.		1	
	7	Petrology - rock cycle, rock Weathering, Soil formation, study of common rock types.		1	
	8	Earthquake Engineering - earthquake waves, causes and effects, Magnitude and intensity of earthquake, Earthquake zones of India.		1	
			Total Lectures Required	48	

Semester – VI (Session 2021-2022)**Subject:** Fluid Mechanics**SUBJECT TEACHER:** Prof. S. V. Dharpal

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Properties of Fluid	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit I: 8
	2	problems on properties of fluid		1	
	3	Rheological classification of fluid, cohesion, adhesion and surface tension		1	
	4	problems on dynamic viscosity		1	
	5	problems on kinematic viscosity		1	
	6	capillarity & Surface Tension & problems		1	
	7	Pascal's Law & Problems		1	
	8	Manometers and Problems		1	
II	1	Total pressure & centre of pressure	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit II: 8
	2	Vertical, horizontal plain surfaces submerged in liquid		2	
	3	Buoyancy, Centre of buoyancy		1	
	4	Metacentre & Metacentric height		1	
	5	Analytical method of metacentric height		2	
	6	Conditions of equilibrium of floating & submerged bodies		1	
III	1	Method of describing fluid motion	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit III: 8
	2	Continuity equation in three dimensions		1	
	3	Velocity potential function		2	
	4	Stream function		1	
	5	Eulers equation of motion		1	
	6	Brnoullis equation		2	
IV	1	Horizontal Venturi meter	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit IV: 8
	2	Rectangular notch		1	
	3	Triangular notch		1	
	4	Darcys equation		1	
	5	Major & Minor losses in pipe		1	

	6	Pipe in series & parallel		1	
	7	Momentum equation application for pipe bend		2	
V	1	Buckingham's pie theorem	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	3	Total Lectures for Unit V: 8
	2	similitude		1	
	3	Dimensionless no.		1	
	5	Geometrically similar models		1	
	6	Reynolds law		1	
	7	Froudes law, model study of spillway		1	
VI	1	Uniform flow, open channel flow	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit VI: 8
	2	Geometric elements of rectangular & Trapezoidal sections		2	
	3	Chezys and Mannings equations		1	
	4	Most efficient rectangular & trapezoidal section		2	
	5	Specific energy curve, normal & critical depth		1	
	6	Analysis of surface profile		1	
			Total Lectures Required	48	

Department of Civil Engineering					
Semester – IV (Session 2021-2022)					
Subject: Building Planning Designing and CAD					
SUBJECT TEACHER: Prof. P. S. Deshmukh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction: Importance of building drawing for Civil Engineering	Shah, Kale & Patki, Building Planning & Drawing, Tata McGraw-Hill publication	1	Total Lectures for Unit I: 5
	2	Method of drawing – Selection of scales for various drawings, types		1	
	3	Abbreviations & graphical symbols used in Civil Engineering Drawing		2	
	4	Combined first angle & third angle method of projection.		1	

II	1	Layout of sheet for civil engineering drawing	Shah, Kale & Patki, Building Planning & Drawing, Tata McGraw-Hill publication	1	Total Lectures for Unit II: 6
	2	Requirements of drawing as per plan sanctioning authorities.		1	
	3	Concept of line plan & working drawings of the building.		1	
	4	Developing working drawings of the building from the given lineplan		2	
	5	Necessity and use of working drawing.		1	
III	1	Concept of site plan, block plan and layout plan. Importance and detail	Dr. Kumar Swamy & Rao Swamy, Charotar publications	1	Total Lectures for Unit III: 6
	2	Developing working drawing and foundation plan for load bearing		1	
	3	Planning of residential building. Introduction, general principles		1	
	4	Planning of residential building. Introduction, general principles		2	
	5	Climate and design consideration. Orientation of buildings		1	
IV	1	Building rules and by laws, for residential buildings, conversion of	Shah, Kale & Patki, Building Planning & Drawing, Tata McGraw-Hill publication	1	Total Lectures for Unit IV: 6
	2	Types of public building and their requirements, planning of public		2	
	3	Preparing line plans of different public buildings such as schools,		2	
	4	Free-hand sketching : Importance in Civil engineering.		1	
	5	Perspective drawing		1	
			Total Lectures Required	23	

Department of Civil Engineering					
Semester – VIII (Session 2021-2022)					
Subject: Water Resources Engineering-II					
SUBJECT TEACHER: Prof. P. S. Deshmukh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Reservoir Planning	Dr. Modi P.N. : Irrigation, Water Resources & Water Power Engg.	1	Total Lectures for Unit I: 6
	2	Reservoir Planning		1	
	3	Dams		1	
	4	Dams		1	
	5	Earth Dams		2	
II	1	Gravity Dams	Punmia : Irrigation & Water Power Engg.	1	Total Lectures for Unit II: 6
	2	Types of dams forces acting,		1	
	3	modes of failure;		1	
	4	principles of design of straight gravity dams,		1	
	5	Elementary and practical profile,		1	
	6	Earthquake and its effect on dams.		1	
III	1	Diversion Head Works: Selection of site and layout, components of diversion head works	Garg S.K. : Irrigation & Water Power Engg.	1	Total Lectures
	2	design of weirs on permeable foundation, construction details of Kolhapur type weirs.		1	

	3	Spillways: Types of spillway, spillway capacity, Flood routing through spillways,		1	for Unit III: 6
	4	Types of crest gates. Energy dissipaters: meaning,		2	
	5	Objectives, location. Types hydraulic jump, jet diffusion and Bucket type		1	
IV	1	Canal Irrigation: Types of canals, Parts of Canal irrigation system, Canal alignment	Dahigaonkar J.G. : T.B. of Irrigation Engg., Wheeler & Co.	1	Total Lectures for Unit IV: 6
	2	Design of unlined and lined Canals,		2	
	3	Balancing depth		2	
	4	cross section of canal, propose and types of canal lining		1	
V	1	Canal Masonry Works: Types and only design principles and description	Garg S.K. : Irrigation & Water Power Engg.	1	Total Lectures for Unit V: 5
	2	Regulation works: Canal fall's, Head Regulator, Cross regulator, Canal escapes and canal outlets.		2	
	3	Cross drainage works: Aqueduct, Syphon aqueducts, super passage, canal siphon, level crossing		2	
VI	1	Well Irrigation : open wells and tube wells, types of tube walls, duty of tube well water.	Garg S.K. : Irrigation & Water Power Engg.	1	Total Lectures for Unit V: 6
	2	Water Management : Water management and distribution, cooperative water user's organization, warabandi, conjunctive use of water.		1	
	3	Water shed Management : Need of watershed management, importance of soil conservation measures, techniques ground water harvesting.		3	
	4	River Training Works : Need and types of river training works.		1	
			Total Lectures Required	35	

Department of Civil Engineering					
Semester – I (Session 2021-2022)					
Subject: Highway Construction Management					
SUBJECT TEACHER: Prof. V. S. Gohatre					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Highway: Development and Planning, Road Transport characteristics	Highway Engineering Khanna & Justo	1	Total Lectures for Unit I: 6
	2	Road pattern, Alignment principles		1	
	3	classification of Roads, Road development plans & Salient features, Road pattern		1	
	4	Egg. Survey for highway. Material and Testing.		1	
	5	Various properties of aggregates and bituminous		1	
	6	Materials and Test, IRC, IS Specifications, bituminous mix design.		1	
II	1	Geometric Design cross sectional elements, Right of way, Camber, Gradient	Highway Engineering Khanna & Justo	2	Total Lectures for Unit II: 7
	2	Typical Highway cross section in embankment and in cutting		1	
	3	PIEV Theory, stopping sight distance, Overtaking sight distance		1	
	4	Horizontal alignment - curves, super elevation, Extra widening, transition curves, vertical alignment		2	
	5	Design of summit and valley curves, IRC Standards for Geometric design.		1	
III	1	Pavement Design: Components of Flexible and Rigid pavement, Design factors	Highway Engineering Khanna & Justo	1	Total Lectures for Unit III: 7
	2	ESWL, Flexible pavement design by C.B.R. Method		1	
	3	Westergards analysis for wheel load		1	
	4	Temperature stresses in rigid pavement, Rigid pavement by IRC method		2	
	5	Joints in Rigid Pavement, Construction And Maintenance		1	
	6	construction procedure, construction of roads in expansive soil.		1	
IV	1	Traffic Control Devices Traffic signs, markings, islands and signals.	Highway Engineering Khanna & Justo	1	Total Lectures
	2	Different methods of signal design		2	
	3	redesign of existing signal including case studies		1	

	4	Signal system and co-ordination		1	for Unit IV: 6
	5	Evaluation and design of road lighting.		1	
V	1	Road Safety: Road accidents, Causes, scientific investigations and data collection.	Highway Engineering Khanna & Justo	2	Total Lectures for Unit V: 6
	2	Safety in Road Design – Accident prevention through better planning		1	
	3	design of roads – planning road networks by land use planning		1	
	4	Traffic calming techniques and innovative ideas in road safety.		2	
VI	1	Equipment in Highway Construction, Various types of equipment for excavation,	Highway Engineering Khanna & Justo	2	Total Lectures for Unit V: 6
	2	Various types of equipment for grading and compaction		1	
	3	advantages and limitations OF Various types of equipment		1	
	4	Special equipment for bituminous and cement concrete pavement		1	
	5	Special equipment for stabilized soil road construction		1	
			Total Lectures Required	36	

Department of Civil Engineering					
Semester – VIII (Session 2021-2022)					
Subject: Basics of Building Construction					
SUBJECT TEACHER: Prof. P. S. Deshmukh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction: Definition of building as per national building code	Deshpande R.S... And Vartak C.V.: A Treatise on Building Construction.	3	Total Lectures for Unit I: 6
	2	components of buildings and their function , Types of structure-load bearing structure and frame structures, their relative advantages and disadvantages, load bearing walls and partition walls		2	
	3	Types of foundation- Definition and necessity and types of foundations, precautions to be taken against failure of foundations		1	
II	1	Stone Masonry- Technical term, general principles to be observed during construction, selection of stone masonry.	Sharma S.K. Kaul and B.K.:A.T.B. Building Construction, S Chand and co.	3	Total Lectures for Unit II: 8
	2	Brick Masonry Construction- Technical term, general principles to be observed during construction		3	
	3	commonly used types of bonds such as Stretcher, Header, English bond Flemish bond and their suitability.		2	
III	1	Floors- Types of floors-Basement floor, ground floor and upper floor	Sane L.S.: Construction Engineering, ManakTalas, Mumbai	2	Total Lectures
	2	Types of upper floors-R.C.C. slab floor, R.C.C. slab and beam floor		2	

	3	R.C.C. grid floor, R.C.C. flat slab floor.		1	for Unit III: 7
	4	Floor Finishes Types of flooring material, Shahabad , Kota, Granite, Ceramic tiles, Plain tiles,		1	
	5	mosaic tiles glazed tiles ,different types of floor finishes , their suitability. Method of construction, criteria of selection.		1	
IV	1	Door –Purpose, criteria for location, size of door, door frames and its types, method of fixing Windows- Purpose	Chudley R.: Construction Technology, Volume I.II.III. And IV, Longmans Group Ltd.	1	Total Lectures for Unit IV: 7
	2	criteria for location, size and shapes of windows, types of windows and their suitability.		2	
	3	Ventilators – Types and their suitability. Fixtures and Fastening for doors and windows.		2	
	4	Arches and Lintels - Types and their suitability. Details of R.C.C. lintels and chajja, precast lintels and arches		2	
V	1	Stairs- Function, technical terms, criteria for location, types of staircases and their suitability.	Chudley R.: Construction Technology, Volume I.II.III. And IV, Longmans Group Ltd.	3	Total Lectures for Unit V: 7
	2	Painting and Coloring – Necessity, types, processes of painting and coloring to the wall surface,		2	
	3	Scaffolding- Purposes, types, suitability.		2	
VI	1	Special Aspects of Construction, Damp proofing-causes of dampness, its effects	Chudley R.: Construction Technology, Volume I.II.III. And IV, Longmans Group Ltd.	1	Total Lectures for Unit V: 7
	2	Fire proof construction- Points to be observed during planning and construction. Fire protection requirement for a multistoried building,		1	
	3	Sound proof construction –Sound absorbents and their characteristic. Joints Expansion and construction joints necessity,		3	
	4	details of expansion joint at foundation level and roof level of load bearing structure and framed structure, Provision of construction joints in slabs, beams and columns.		2	
			Total Lectures Required	42	

Department of Civil Engineering					
Semester – VIII (Session 2021-2022)					
Subject: Project Planning Management					
SUBJECT TEACHER: Prof. V. S. Gohatre					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Project, Project Stakeholders, Project life cycle	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management – Kundan Singh, M.L.Kansal	1	Total Lectures for Unit I: 7
	2	Conceptual Phase, Planning Phase, Execution Phase, Termination phase.		1	
	3	Concept of feasibility study, Budgeting, Cash Flow		1	
	4	Risk assessment plan. Project planning- Steps, work break down structure		1	
	5	Scheduling. Project Monitoring & Controlling- Concept of Tracking		1	
	6	Reviewing and Rescheduling. Planning Tools: Basic concept of Gantt chart, Bar Chart		1	
	7	Mile stone chart, their advantage, limitations and overcoming measures		1	
II	1	Networking – Activity, Event, dummy Activity	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management – Kundan Singh, M.L.Kansal	2	Total Lectures for Unit II: 5
	2	Fulerson’s numbering rule, Geometrical consideration.		1	
	3	Critical Path Method: Concept, technique, Critical path, Numerical on Time and Floats computation		1	
	4	concept of Updating Network and its numerical for computation.		1	
III	1	PERT: Concept, technique, three time estimates average time,	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management – Kundan Singh, M.L.Kansal	2	Total Lectures for Unit III: 5
	2	Critical path, slack computation S.D, Variance,		1	
	3	Probability factor, crash programme, normal and crash cost, normal and crash time		1	
	4	cost slope, Numerical on Probability computation, crashing		1	
IV	1	Concept of resource smoothing and leveling, Cost Curves	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management –	1	Total Lectures
	2	Numerical of it. Introduction to Planning		2	
	3	Various stages and process for Work Breakdown structure		1	

	4	planning, scheduling and resource allocation for project by software	Kundan Singh, M.L.Kansal	1	for Unit IV: 6
	5	scheduling and resource allocation for construction project using software		1	
V	1	Management- Feyol's Principal of Management, Functions of management	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management – Kundan Singh, M.L.Kansal	1	Total Lectures for Unit V: 7
	2	organization definition, type line, line and staff functional organization, quality control, ISO		1	
	3	Safety management, construction hazards in multistage building method of prevention of accident, injury rate		2	
	4	injury severity rate, injury index, National safety council, its role recommendation		2	
		Material management, Objective, Functions, Inventory, Need for inventory, ABC, EOQ analysis.		1	
VI	1	Power shovel: Construction, working, Output, factors affecting, cycle time, Problem on Output	CPM & PERT- Dr. B.C.Punmia & K K Khandelwal Project Planning & Management – Kundan Singh, M.L.Kansal	1	Total Lectures for Unit V: 6
	2	payback period of equipments		1	
	3	Dragline: Construction, working, output, factor affecting output		2	
	4	cycle time, Problem on output		1	
	5	Concrete mixer, Tilting and non-tilting type construction working.		1	
				Total Lectures Required	

Department of Civil Engg					
Semester –III (Session 2021-202)					
Subject: Transportation Engg					
SUBJECT TEACHER: Prof. V. S. Gohatre					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
	1	Road Transport characteristics	Jasto and Khanna L.R.Kadiyali NPTL	1	Total Lectures for Unit I: 6
	2	classification of Roads		1	

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	3	Road Patterns		1	
	4	Alignment principles		1	
	5	Survey for highway		2	
II	1	Cross sectional elements	Jasto and Khanna L.R.Kadiyali NPTL	1	Total Lectures for Unit II: 8
	2	Right of way, Camber, Gradient		1	
	2	Typical Highway cross section, PIEV Theory		1	
	3	stopping sight distance, overtaking sight distance		1	
	4	Horizontal alignment, curves,		1	
	5	superelevation		1	
	6	Numerical		2	
III	1	Components of Flexible and Rigid pavement, Design factor	Jasto and Khanna L.R.Kadiyali NPTL	1	Total Lectures for Unit III: 6
	2	Traffic Characteristics, Traffic Studies		1	
	3	Construction and Maintenance – WBM Surface dressing		1	
	4	bituminous roads and construction procedure		1	
	5	Road parking system,		1	
	6	traffic control devices and 3 E's of traffic		1	

IV	1	Railway transportation : track sections, embankment & cutting	Jasto and Khanna L.R.Kadiyali NPTL	1	Total Lectures for Unit IV: 6
	2	Points and crossing Left &right hand turnouts.		1	
	3	Objects, Permanent way, gauges, coning of wheels		1	
	4	components of permanent way, Sleeper density,		1	
	5	Rail fixtures & fastening		1	
	6	Rail types and functions.		1	
V	1	Agencies controlling national & international aviation	Jasto and Khanna L.R.Kadiyali NPTL	1	Total Lectures for Unit V: 7
	2	various surveys to be conducted, airport site selection,		1	
	3	Aero plane component parts, Aircraft characteristics		1	
	4	Airport obstructions: Zoning laws		1	
	5	wind rose diagram.		1	
	6	Basic runway length and corrections		1	
	7	Apron layout, Aircraft parking & parking system		1	
VI	1	Size and shape of tunnels, and Tunnel lining.	Jasto and Khanna L.R.Kadiyali NPTL	1	05
	2	Tunnel drainage, ventilation & lighting of tunnels		1	
	3	Bridge Engineering-Components, classification and identification		1	
	4	Estimation of flood discharge, water way, scour depth, depth of foundation, Afflux, clearance and free board,		2	

			Total Lectures Required		38

Department of Civil Engineering					
Semester – VII (Session 2021-2022)					
Subject: Design of steel Structures Subject Code:7CE03 Section: A					
SUBJECT TEACHER: Prof. P.S.Pajgade					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to WSM, LSM & plastic analysis.	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subbramanyam, Design of Steel Structures, Oxford University Press, 2008.	8	Total Lectures for Unit I: 14
	2	Design of bolted & welded connections subjected to axial loading.		6	
II	1	1. Design of compression & tension member.	Shah & Karve, Design of steel structures. Bhavikatti, Design of steel structure	6	Total Lectures for Unit II: 12
	2	1. Design of roof truss.		6	
III	1	1. Design of simple & compound columns for axial & eccentric loading.	Shah & Karve, Design of steel structures. Bhavikatti, Design of steel structure	4	Total Lectures for Unit III: 8
	2	1. Design of column bases (Slab base & Gusseted base) subjected to axial load.		4	
		1. Design of simple Beams.	Shah & Karve, Design of steel structures.		

IV	1		Sheyakar, Design of steel structure.	4	Total Lectures for Unit IV: 6
	2	1. Design of compound Beams.	Bhavikatti, Design of steel structure	2	
			Total Lectures Required	40	

Department of Civil Engineering					
Semester – IV (Session 2021-2022)					
Subject: Geotechnical Engineering - I					
SUBJECT TEACHER: Prof. P. V. Kolhe					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	History of development of soil mechanics, formation of soil, its significance to the field problems	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit I: 8
	2	Soil properties and its classification		1	
	3	Definition of soil, soil as a three phase system, weight – volume relationship		1	
	4	Index properties of coarse and fine grained soil		1	
	5	BIS classification of fine grained & coarse grained soil		1	
	6	Numericals		3	
II	1	Concept of clay mineral, major soil minerals, their structural formation and properties	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit II: 6
	2	Mechanics of compaction, factors affecting compaction, different structures of soil		1	
	3	Standard and modified Proctor test, their field Determination, zero air void line, concept of wet of optimum, and dry of optimum		1	
	4	Field compaction & their control. CBR test and CBR value for soak and unsoaked conditions.		1	
	5	Numericals		2	
III	1	Concept of absorbed water, surface tension	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit III: 7
	2	Capillarity and its effect on Soil properties permeability of soil		1	
	3	Darcy's law and validity, Discharge and seepage velocity, factors affecting Permeability		1	
	4	Determination of coefficient of permeability laboratory and field methods.		1	
	5	Permeability for stratified deposits, Drainage and Dewatering Methods		1	
	6	Numericals		2	

IV	1	Laplace equation, its derivation in Cartesian co-ordinate system, its application for the computation of discharge seepage	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit IV: 8
	2	Seepage pressure, Quick sand condition with numericals		1	
	3	Concepts flow net, method to draw flow nets, characteristics and use of flow net		1	
	4	Preliminary problem of discharge, estimation of discharge through homogenous earthen embankment		1	
	5	Design Terzaghi's criteria for graded filter, concept of piping and criteria of stability against piping		2	
	6	Numericals		2	
V	1	A physical concept of shear strength, Introduction of Mohr's stress diagram	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit V: 7
	2	Mohr's failure criteria, Mohr-Coulomb's theory and development of failure envelopes		1	
	3	Unconfined compression test, Laboratory measurement of shear strength for different drainage, conditions by direct shear test		1	
	4	Triaxial test for various drainage conditions Merits and demerits of various shear strength tests.		1	
	5	Concept of pore pressure coefficient shear characteristics of sand, NC and OC clays and partially saturated soil		1	
	6	Numericals		2	
VI	1	State of stress at a point, stress distribution in soil mass	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit VI: 6
	2	Boussinesq's theory and its applications, point load, uniformly loaded rectangular and circular area		1	
	3	New-mark's chart, its preparation and use, equivalent point load Compression of laterally confined soil, concept of consolidation spring analogy		1	
	4	Terzaghi's theory of one dimensional consolidation		1	
	5	Determination of Cv Cassagrande's method for determination of pre-consolidation pressure.		1	
	6	Numericals		1	
Total Lectures Required				42	

Department of Civil Engineering
Semester – VII (Session 2021-2022)
Subject: Geotechnical Engineering - II

SUBJECT TEACHER: Prof. P. V. Kolhe					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Field exploration, objectives and methods of exploration	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit I: 7
	2	Planning of exploration programme soil boring, Introduction to methods of soil exploration		1	
	3	SPT test, field vane shear test		1	
	4	Geophysical methods, electrical resistivity and soil refraction methods		1	
	5	Soil log bore presentation and interpretation exploration data. Ground improvement techniques		1	
	6	Numericals		2	
II	1	Bearing capacity and concept of local and general shear failure	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit II: 8
	2	Terzaghi's and Skempton's Theory of BC		1	
	3	Meyerhof's and BIS method for bearing capacity		1	
	4	Determination bearing capacity of granular soils based on SPT value		1	
	5	Plate load test, Static Cone Penetrometer (In Situ methods for bearing capacity)		1	
	6	Pressure meter test contact pressure distribution diagram below the base of footing, Concept of raft foundation and floating foundation		1	
	7	Numericals		2	
III	1	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	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit III: 8
	2	Influence of surcharge, water table, wall friction		1	
	3	Rebhann's and Culmann's simple graphical methods		1	
	4	Introduction to sheet pile and bulkhead and their classifications		1	
	5	(No design criteria) Cofferdam purpose, various types and their suitability.		1	
	6	Numericals		3	
IV	1	Classification of piles and their uses	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit IV: 8
	2	Static analysis along with numericals		2	
	3	Dynamic analysis along with numericals		2	
	4	Piles in group and their capacity, group efficiency, factors affecting group efficiency		1	
	5	Behaviour of group of pile in sandy and in clayey soil, pile load test, effect of pile cap		1	
	6	Criteria for spacing and depth of piles. IS design criterion for undreamed Pile in clay and sands		1	

V	1	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	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit V: 6
	2	Concept of differential settlement factors and causes for differential settlement, BIS requirement for total as well as differential settlement		1	
	3	Proportioning of footing for uniform settlement		1	
	4	Computation of total and differential settlement of a single pile and group of piles in sandy and clayey soil.		1	
	5	Numericals		2	
VI	1	Component & their function, sinking of well, types of force system, and their computation	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit VI: 7
	2	Design criteria for various components of wells		1	
	3	Tilting and shifting, Bearing capacity of well as per BIS.		1	
	4	Stability analysis of infinite and finite slope, causes of failure of slopes		1	
	5	Stability analysis of infinite and finite slope in cohesive and non-cohesive soils		1	
	6	Numericals		2	
Total Lectures Required				44	

Department of Civil Engineering					
Semester – VIII (Session 2021-2022)					
Subject: Dam Engineering					
SUBJECT TEACHER: Prof. S.A.Baitule					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to Dam Engineering : Different classification for dams	Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi Satyanarayanan : Construction, Planning & Equipment, Standard Pub.	1	Total Lectures for Unit I: 7
	2	Relative advantages and disadvantages of various dam selection or types of dam		1	
	3	Investigation of dam sites		1	
	4	Engineering surveys, geological investigation, subsurface exploration programme		1	
	5	Economic height of dam		1	
	6	Construction machinery, material, money, inventory.		2	
II	1	Rockfill dam : Introduction		1	

	2	General characteristics	Sherard et al : Earth and Rockfill Dam, John Wiley, New York.	1	Total Lectures for Unit II:6
	3	Materials and testing of rockfill material		1	
	4	Foundation requirements of rockfill dam		1	
	5	Design consideration of rockfill dam		1	
	6	Rockfill placement,		1	
III	1	Arch dam :- components	Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi. USBR : Design of Gravity Dam.	1	Total Lectures for Unit III: 8
	2	Types and methods for design of Arch dam		2	
	3	Buttress dam : components, types		1	
	4	Forces acting, Buttress spacing		1	
	5	Master curve for economic spacing		1	
	6	Preliminary design Solid Gravity dams : Analysis & Design of gravity dam.		2	
IV	1	Spillways: choice of types, crest gates	Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi. Varshney R.S. : Concrete Dam, Ox IBH, Mumbai.	2	Total Lectures for Unit IV: 7
	2	Hydraulic design, comparison		1	
	3	Approach and tail channel, J.H.C. & tail water rating curve		1	
	4	Energy Dissipaters: types, components		1	
	5	Design of hydraulic jump type, basins		1	
	6	Ski-bucket type, roller bucket.		1	
V	1	Head Regulators : requirements, types	USBR : Design of Small Dams. Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi.	1	Total Lectures for Unit V: 7
	2	Foundation treatment including uplift consideration		1	
	3	Bank connection, energy dissipation, hydraulic design of opening and barrel, ventilation, types of gates.		2	
	4	Approach Channel, case study for one on rock foundation and one on permeable foundation.		1	
	5	Model Studies: scales design principles, materials, scale effects for model of dams spillway		2	
VI	1	Instrumentation : In earth dam and solid gravity dams, piezo meters, settlement, gauges (surface monuments, base plate, cross arm)	Peurifoy R.L. : Construction, Planning and Equipments, McGraw Hill Book Co. Satyanarayanan : Construction, Planning & Equipment, Standard Pub.	1	Total Lectures for Unit VI: 7
	2	Strain meters joint meters		1	
	3	Thermometers, stress meters, pore pressure cells, plumb-bob Seismograph		1	
	4	Water level gauges (description, object, location, working, installation of each		1	
	5	Increasing height of masonry and concrete dams		1	
	6	Strengthening, repairs and maintenance, leakage, evaporation controls. evaporation controls.		2	
Total Lectures Required				44	

Department of Civil Engg					
Semester –VI (Session 2021-22)					
Subject: Traffic Engg & management					
SUBJECT TEACHER: Prof . M.S.Mahalle					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Road Characteristics – Road User Characteristics	L.R.KADIYALI NPTL	1	Total Lectures for Unit I: 6
	2	PIEV theory – vehicle – Performance Characteristics		1	
	3	– Fundamental of traffic flow – Urban Traffic problems in India		1	
	4	Integrated planning of town, country, regional and all urban infrastructur		1	
	5	towards sustainable approach – Land use & transport and model integration		2	
II	1	Traffic surveys – Speed, Journey time and delay surveys	L.R.KADIYALI NPTL	1	Total Lectures for Unit II: 6
	2	vehicles volume survey including non-motarized transpor		1	
	3	methods and interpretation – origin destination survey		1	
	4	accident analyses methods		1	
	5	interpretation and presentation		1	
	6	–level of service		1	
		Intersection Design – channelization	L.R.KADIYALI		

III	1		NPTL	1	Total Lectures for Unit III: 6
	2	Rotary intersection design		1	
	3	signal design – coordination of signals , grade separation		1	
	4	traffic signs including VMS and road markings		1	
	5	significant roles of traffic control personnel –		1	
	6	networking pedestrian facilities & cycle tracks		1	
IV	1	Road Accident – Causes, effects, prevention	L.R.KADIYALI NPTL	1	Total Lectures for Unit IV: 7
	2	street lighting		1	
	3	– traffic and environment hazards		1	
	4	air and noise pollution		1	
	5	, causes, abatement measures		1	
	6	promotion and integration of public transportatio		1	
	7	– Promotion of non-motorized transport		1	
V	1	Area Traffic management system	L.R.KADIYALI NPTL	1	Total Lectures for Unit V: 7
	2	– traffic system management (TSM) with IRC standards		1	
	3	Traffic Regulatory Measures		1	
	4	Travel Demand Management (TDM)		1	
	5	congestion and parking pricing		1	
	6	all segregation methods		1	
	7	coordination among different agencies		1	
VI	1	Intelligent transport system	L.R.KADIYALI NPTL	1	Total Lectures for Unit06
	2	Intelligent transport system for traffic management		2	
	3	enforcement and education		1	

	4	Application of ITS to Traffic Management System		2	V: 06
			Total Lectures Required	38	

Department of Civil Engineering					
Semester – VII (Session 2021-2022) Section C					
Subject: Design of Steel Structure (7CE03)					
SUBJECT TEACHER: Prof. S. R. Bhuskade					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Basic Introduction	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	1	Total Lectures for Unit I: 11
	2	Introduction To LSM & WSM		1	
	3	Introduction To Plastic Analysis		2	
	4	Design of Bolted Connection		4	
	5	Design of Welded Connection		3	
II	1	Design of Tension Member	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	4	Total Lectures for Unit II: 11
	2	Design of Compression Member		3	
	3	Design of Industrial shed		4	
III	1	Design of simple Column	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	2	Total Lectures for Unit III: 10
	2	Design of compound Column		3	
	3	Design of column bases subjected to axial load & moment, gusseted base.		2	
	4	Design of column bases subjected to axial load & moment, solid slab base.		3	
IV	1	Design of Simple Beam	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	3	Total Lectures for Unit IV: 10
	2	Design of Compound Beam		3	
			Total Lectures Required	42	

Department of Civil Engineering					
Semester – VI (Session 2021-2022) Section C					
Subject: Design of Steel Structure (6CE01)					
SUBJECT TEACHER: Prof. S. R. Bhuskade					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Basic Introduction	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	1	Total Lectures for Unit I: 11
	2	Introduction To LSM & WSM		1	
	3	Introduction To Plastic Analysis		2	
	4	Design of Bolted Connection		4	
	5	Design of Welded Connection		3	
II	1	Design of Tension Member	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	4	Total Lectures for Unit II: 11
	2	Design of Compression Member		3	
	3	Design of Industrial shed		4	
III	1	Design of simple Column	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	2	Total Lectures for Unit III: 10
	2	Design of compound Column		3	
	3	Design of column bases subjected to axial load & moment, gusseted base.		2	
	4	Design of column bases subjected to axial load & moment, solid slab base.		3	
IV	1	Design of Simple Beam	Duggal, S. K., Design of Steel Structures, Tata McGraw Hill Pub. Company Ltd. N. Subramanyam, Design of Steel Structures, Oxford University Press, 2008. Shah & Karve, Design of steel structures. Sheyakar, Design of steel structure. Bhavikatti, Design of steel structure	3	Total Lectures for Unit IV: 10
	2	Design of Compound Beam		3	
Total Lectures Required				42	

Department of Civil Engineering					
Semester – III (Session 2021-2022)					
Subject: CTRCC					
SUBJECT TEACHER: Prof. S.D.Malkkhede					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
	1	Introduction, Syllabus		1	

I	2	Cement Manufacturing process.	Concrete technology by MS shetty	1	Total Lectures for Unit I: 6
	3	Wet & Dry process		1	
	4	Properties of fresh concrete:		2	
	5	Mixing, centering & formwork, placing, compaction and curing of concrete		1	
II	1	Properties of hardened concrete:.,	Concrete technology by MS shetty	1	Total Lectures for Unit II: 8
	2	Grades of concrete		1	
	2	Properties of concrete,		1	
	3	Elasticity, creep, shrinkage.		1	
	4	Durability of concrete, laboratory tests on concrete		1	
	5	Durability of concrete, laboratory tests on concrete		1	
III	1	Pozzolana and Admixtures	Concrete technology by MS shetty	1	Total Lectures for Unit III: 8
	2	Plasticizer, retarders		1	
	3	Accelerators, water proofing agents,		1	
	4	Mineral admixtures, IS code provisions.		1	
	5	Concreting techniques: Guniting, grouting and shotcreting concrete, introduction & application of Ferrocement.		1	
	6	Concrete curing compounds		1	
	7	Bond aid for plastering,		2	
IV	1	Special concrete	Concrete technology by MS shetty	1	Total Lectures for Unit IV: 8
	2	Light weight concrete		2	
	3	Fibre reinforced concrete		1	
	4	Roller compacted concrete, selfcompacted concrete,		1	
	5	Concreting techniques: Guniting		1	
	6	Grouting and shotcreting concrete, introduction & application of Ferrocement.		2	
V	1	Introduction of mix design,	Concrete technology by MS shetty	1	Total Lectures for Unit V: 6
	2	Factors governing mix design		1	
	3	IS code method of mix design (IS:10262 – 1982) and ACI method.		2	
	4	IS code method of mix design (IS:10262 – 1982) and ACI method.		2	
VI	1	Basic elastic theory and concept of reinforced concrete,	Concrete technology by MS shetty	1	Total Lectures for Unit VI: 8
	2	Types of reinforcement,		2	
	3	Analysis of rectangular sections by working stress method		1	
	4	Modes of failure		1	
	5	Design of singly reinforced beams		1	
	6	One-way slabs		2	
			Total Lectures Required	42	

Department of Civil Engineering					
Semester – VII (Session 2021-2022)					
Subject: 4CE05 - STRUCTURAL ANALYSIS- I					
SUBJECT TEACHER: Dr. N. P. Kataria					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark

I	1	Classification of Structures, Concept of statically indeterminate Structures, Analysis of fixed beam and propped cantilever, Rotation and sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit I: 8
	2	Analysis of Continuous beam by theorem of three moments, sinking of support.		4	
II	1	Castigliano's theorem I, Unit load method, slope and deflection in determinate beams and portals.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit II: 8
	2	Deflection in determinate trusses.		4	
III	1	Influence line diagrams for reactions, bending moment and shear force for determinate beams.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit III: 8
	2	Rolling loads on simply supported beams concentrated and uniformly distributed loads, maximum shear force and bending moment, focal length.		4	
IV	1	Analysis of Cables Suspension Bridge under Concentrated Load and UDL for Cables over pulleys and Cable provided with saddles.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit IV: 8
	2	Two & Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust.		4	
V	1	Slope deflection method: Analysis of continuous beams with and without sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit V: 8
	2	Slope deflection method: Analysis of portal frames without side sway.		4	
VI	1	Moment Distribution method: Analysis of continuous beams with and without sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit VI: 8
	2	Moment Distribution method: Analysis of portal frames without side sway.		4	
			Total Lectures Required	48	

Department of Civil Engineering
Semester – V (Session 2021-2022)
Subject: 5CE03: Numerical Methods and Computer Programming

SUBJECT TEACHER: Dr. N. P. Kataria

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Spreadsheet software basics, Expressions, Mathematical Functions, Conditional Execution Functions like IF, COUNT, COUNTIF, SUM, SUMIF, AVERAGE, AVERAGEIF, LOOKUP, HLOOKUP. Application to the Civil Engineering Problems.	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	6	Total Lectures for Unit I: 6
II	1	Basic structure of C program, use of library functions, input output statements, flowchart.	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	3	Total Lectures for Unit II: 6
	2	Decision Control structures and loop Control structures conditional loop and unconditional loop: WHILE, DOWHILE, FOR, IF, IFELSE, NESTEDIF, LADDER IFELSE etc.		3	
III	1	Type casting, single dimensional and multi-dimensional array, subscripted variables	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	3	Total Lectures for Unit III: 6
	2	Functions in C		3	
IV	1	Computer Programming using C: Matrix operations such as: a. Addition and subtraction b. Multiplication c. Transpose d. Testing summary etc.	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	3	Total Lectures for Unit IV: 6
	2	Fourth order, Runge - Kutta method for solution of first order, second order differential equations and two simultaneous equations.		3	
V	1	Solution of quadratic equation, Numerical integral using Trapezoidal and Simpson rule	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	3	Total Lectures for Unit V: 6
	2	Finding root of equation $f(x) = 0$ by Newton – Raphson , Regula -Falsi and Bisection method.		3	

VI	1	1. Centre of gravity, moment of inertia & radius of gyration of Tee section. 2. Bending moment and shear force ordinates for simply supported beam subjected to point and uniformly distributed load only. 3. Design of singly reinforced beam by limit state method. 4. Determination of coefficient of permeability in parallel and perpendicular direction of bedding plane 5. Reduce level by height of instrument method. 6. Determination of Chezy's constant.	1..E Balagurusamy, Programming in ANSI C 2.Yashavant P. Kanetkar, Let Us C	6	Total Lectures for Unit VI: 6
			Total Lectures Required	36	

Department of Civil Engineering					
Semester – IV (Session 2021-2022)					
Subject: Surveying					
SUBJECT TEACHER: Prof. S.D.Malkkhede					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction: Geo-informatics- definition, disciplines covered, importance. Field Surveying Methods	B.C. Punmia : Surveying I & II.	1	Total Lectures for Unit I: 6
	2	Definition & objectives; concept of Geoids and reference spheroids, coordinate systems, plane and geodetic surveys		1	
	3	Location of a point- classification of surveys; principles of surveying Errors in measurements		1	
	4	Sources, types of errors and their treatment		1	
	5	Random error distribution, accuracy, precision and uncertainty. Surveying instruments temporary and permanent adjustment concept, principle of reversal. Maps- types, importance, scales/CI		1	
	6	Conventional symbols, and generalization; topographic maps projection systems, sheet numbering systems, map layout.		1	
II	1	Direct and indirect methods	B.C. Punmia : Surveying I & II.	1	Total Lectures for Unit II: 6
	2	Chain and tape measurement		1	
	3	Corrections to tape measurements		1	
	4	Optical methods- tachometers, sub tense bar;		1	
	5	Optical methods- tachometers, sub tense bar;		1	
	6	Electronic methods- EDMs, total stations		1	
III	1	Various terms; Methods of height determination; Spirit leveling.	. B.C. Punmia : Surveying I & II.	1	Total Lectures for Unit III: 6
	2	Different types of levels and staves;		1	
	3	Booking and reduction of data		1	
	4	Classification and permissible closing error;		1	
	5	Profile leveling and cross sectioning		1	
	6	Curvature & refraction and collimation errors; reciprocal leveling		1	
IV	1	Bearings and angles	B.C. Punmia : Surveying I & II.	1	Total Lectures for Unit IV: 6
	2	Compass surveying		1	
	3	Magnetic bearings		1	
	4	Declination		1	
	5	Local attraction errors and adjustments.		1	
	6	Local attraction errors and adjustments.		1	

V	1	Purpose and classification of each; Compass and theodolite traverses, , omitted measurements.	B.C. Punmia : Surveying I & II.	1	Total Lectures for Unit V: 6
	2	Local attraction errors and adjustments.		1	
	3	Methods of observation and booking of data,		1	
	4	Methods of observation and booking of data,		1	
	5	Balancing of traverses, computation of coordinates		1	
	6	Gale's traverse table		1	
VI	1	Merits and demerits, accessories;	B.C. Punmia : Surveying I & II..	1	Total Lectures for Unit VI: 6
	2	Orientation and resection		1	
	3	Methods of plane tabling;		1	
	4	Methods of plane tabling		1	
	5	Engineering project surveys requirements		1	
	6	Engineering project surveys requirements		1	
			Total Lectures Required	36	

Department of Civil Engineering					
Semester – IV (Session 2021-2022)					
Subject: Geotechnical Engineering - I					
SUBJECT TEACHER: Prof. R. V. Langote					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	History of development of soil mechanics, formation of soil, its significance to the field problems	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit I: 8
	2	Soil properties and its classification		1	
	3	Definition of soil, soil as a three phase system, weight – volume relationship		1	
	4	Index properties of coarse and fine grained soil		1	
	5	BIS classification of fine grained & coarse grained soil		1	
	6	Numericals		3	
II	1	Concept of clay mineral, major soil minerals, their structural formation and properties	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit II: 6
	2	Mechanics of compaction, factors affecting compaction, different structures of soil		1	
	3	Standard and modified Proctor test, their field Determination, zero air void line, concept of wet of optimum, and dry of optimum		1	
	4	Field compaction & their control. CBR test and CBR value for soak and unsoaked conditions.		1	
	5	Numericals		2	
III	1	Concept of absorbed water, surface tension	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit III: 7
	2	Capillarity and its effect on Soil properties permeability of soil		1	
	3	Darcy's law and validity, Discharge and seepage velocity, factors affecting Permeability		1	
	4	Determination of coefficient of permeability laboratory and field methods.		1	

	5	Permeability for stratified deposits, Drainage and Dewatering Methods		1	
	6	Numericals		2	
IV	1	Laplace equation, its derivation in Cartesian co-ordinate system, its application for the computation of discharge seepage	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit IV: 8
	2	Seepage pressure, Quick sand condition with numericals		1	
	3	Concepts flow net, method to draw flow nets, characteristics and use of flow net		1	
	4	Preliminary problem of discharge, estimation of discharge through homogenous earthen embankment		1	
	5	Design Terzaghi's criteria for graded filter, concept of piping and criteria of stability against piping		2	
	6	Numericals		2	
V	1	A physical concept of shear strength, Introduction of Mohr's stress diagram	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit V: 7
	2	Mohr's failure criteria, Mohr-Coulomb's theory and development of failure envelopes		1	
	3	Unconfined compression test, Laboratory measurement of shear strength for different drainage, conditions by direct shear test		1	
	4	Triaxial test for various drainage conditions Merits and demerits of various shear strength tests.		1	
	5	Concept of pore pressure coefficient shear characteristics of sand, NC and OC clays and partially saturated soil		1	
	6	Numericals		2	
VI	1	State of stress at a point, stress distribution in soil mass	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit VI: 6
	2	Boussinesq's theory and its applications, point load, uniformly loaded rectangular and circular area		1	
	3	New-mark's chart, its preparation and use, equivalent point load Compression of laterally confined soil, concept of consolidation spring analogy		1	
	4	Terzaghi's theory of one dimensional consolidation		1	
	5	Determination of Cv Cassagrande's method for determination of pre-consolidation pressure.		1	
	6	Numericals		1	
Total Lectures Required				42	

IVth Year

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

Course Number and Title: -
Name of Faculty: -
Semester: -VII

Real Time Embedded System (7IT04)
Prof. A. A. Gulhane
Section: - A

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1			
1	12-08-2021	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	9
2	13-08-2021	Introduction to embedded systems	
3	17-08-2021	Processor in the system, types of processor	
4	20-08-2021	Hardware units required in the exemplary cases	
5	23-08-2021	Software embedded into a system. Final Machine implement able software for a product	
6	24-08-2021	Software in Processor specific assembly language and high level language	
7	26-08-2021	Device drivers device management using an operating systems	
8	27-08-2021	Software design for scheduling multiple tasks and devices using RTOS	
9	30-08-2021	Embedded SoC and in VLSI circuits.	
Unit-2			
10	31-08-2021	Structural units of the processor	8
11	02-09-2021	Allocation of memory to program segment and blocks	
12	03-09-2021	Memory map of the system	
13	06-09-2021	Memory blocks for different data sets and structures	
14	09-09-2021	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	14-09-2021	Device drivers, Virtual Devices,	
16	16-09-2021	Device drivers for parallel port, serial and timing devices	
17	17-09-2021	Context and periods for context switching, deadline and interrupt latency	

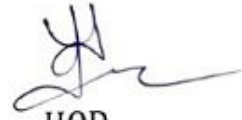
Lecture No.	Planned Dates	Topic Name	Total hours
Unit-3			
18	20-09-2021	Software programming in assembly language and C	8
19	21-09-2021	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	23-09-2021	Use of data structures Function pointers, Function queues and ISR queues	
21	24-09-2021	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	27-09-2021	Use of FIPO queues, Stacks,	
23	28-09-2021	Lists and Ordered Lists	
24	30-09-2021	Embedded Programming in C++	
25	01-10-2021	Embedded Programming in Java	
Unit-4			
26	04-10-2021	Modeling process, Use of dataflow & control data flow graphs,	7
27	05-10-2021	Programming model for event controlled or response time constraint, Real time programs,	
28	07-10-2021	use of finite states machine model	
29	08-10-2021	finite states machine model-timer, c function	
30	11-10-2021	Petri net Model	
31	12-10-2021	Modeling of Multiprocessor systems	
32	14-10-2021	IPC and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
Unit-5			
33	18-10-2021	Use of Semaphores for a task or for Critical section of code,	8
34	21-10-2021	Mutex & P & V semaphores	
35	22-10-2021	Priority inversion problems & Deadlock situations	
36	25-10-2021	IPC issues: Use of signals, Use of Semaphore flags	
37	26-10-2021	Use of Mutex as resource key,	
38	28-10-2021	Use of message queues,	
39	29-10-2021	Mailboxes, pipes,	
40	08-11-2021	Virtual sockets, RPCs	

Unit-6

41	09-11-2021	Introduction to RTOS, OS Services, RTOS Services,	9
42	11-11-2021	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	12-11-2021	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	15-11-2021	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	16-11-2021	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	18-11-2021	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
47	22-11-2021	Performance metrics, IEEE Standard POSIX 1003.1B,	
48	23-11-2021	Fifteen-point' strategy for Synchronization,	
49	25-11-2021	Embedded Linux Kernel	
50	26-11-2021	IC Technology	Content beyond Syllabus
51	29-11-2021	Issues in Design Technology	



Faculty: - Prof. A. A. Gulhane



HOD

(Information Technology)**Head**Deptt. of Information Technology
P.R.M.I.T.& R.Badnera-Amravati.

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan: Session 2021-22

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	14-09-2021	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	15-09-2021	Semiconductor Basics	09
3	16-09-2021	Transistors Basics	
4	18-09-2021	Transistor as an Amplifier	
5	21-09-2021	Faithful amplification of CE amplifier	
6	22-09-2021	Need of Transistor Biasing	
7	23-09-2021	Potential Divider Bias Circuit	
8	25-09-2021	Transistor as an Electronic Switch,	
9	27-09-2021	Field Effect Transistor, Difference between BJT & FET	
10	29-09-2021	Construction and working of JFET	
UNIT-2			
11	30-09-2021	Basics of Operational Amplifier	09
12	04-10-2021	Block diagram of operational amplifier	
13	07-10-2021	Ideal operational amplifier parameters	
14	11-10-2021	Inverting Amplifier	
15	13-10-2021	Non-Inverting Amplifier, Voltage follower	
16	14-10-2021	Solved Problems on inverting & non-inverting amplifiers	
17	16-10-2021	Summing Amplifier	
18	18-10-2021	Subtractor	
19	20-10-2021	Comparator	
UNIT-3			
20	21-10-2021	Basics of Oscillator	08
21	23-10-2021	Barkhausen Criterion	
22	25-10-2021	RC Phase Shift Oscillator	
23	27-10-2021	Transistor Crystal Oscillator	
24	28-10-2021	Block diagram of Timer IC 555	
25	30-10-2021	Astable Multivibrator	
26	08-11-2021	Monostable Multivibrator	
27	15-11-2021	Solved Problems	

Lecture No.	Planned Dates	Topic to be covered	Total Hours	
UNIT-4				
28	17-11-2021	Various Logic Gates and their truth tables	09	
29	18-11-2021	Standard logic expression forms: SOP & POS		
30	20-11-2021	Logic expression realization & minimization using K-map		
31	22-11-2021	Two variable K-map		
32	24-11-2021	Three variable K-map		
33	25-11-2021	Four variable K-map		
34	27-11-2021	Solved problems on K-map		
35	29-11-2021	Half Adder, Full Adder		
36	01-12-2021	Half subtractor, Full subtractor		
UNIT-5				
37	02-12-2021	Difference between Combinational and Sequential circuits	08	
38	04-12-2021	Code convertors (BCD, Excess-3 and Gray)		
39	06-12-2021	Multiplexers		
40	08-12-2021	De-multiplexers		
41	09-12-2021	Decoders		
42	11-12-2021	SR flip-flop		
43	13-12-2021	JK flip-flop		
44	15-12-2021	D flip-flop & T flip-flop		
UNIT-6				
45	16-12-2021	Difference between Asynchronous and Synchronous sequential circuits	08	
46	18-12-2021	Asynchronous Counters		
47	20-12-2021	Up-Counter		
48	22-12-2021	Down-Counter		
49	23-12-2021	Mod Counter		
50	27-12-2021	Working of Shift Registers, SISO		
51	29-12-2021	SIPO, PISO and PIPO		
52	30-12-2021	Application of Shift Register as a Ring Counter		
53	01-01-2022	Difficulty Session-I		02
54	03-01-2022	Difficulty Session-II		
Total Lectures Planned				54


Prof. A. G. Mahalle


Dr. P. V. Ingole
HODIT

Head
Deptt. of Information Technology
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Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Information Technology

Session:2018-19

Course Number and Title: - Discrete Structure & Graph Theory (3IT02)

Name of Faculty: -Dr. A. S. Alvi

Semester:-IIIrd Sem

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1			
1	15-Sep-2021	Statements & Notation	10
2	16-Sep-2021	Connectives	
3	17-Sep-2021	Normal forms	
4	20-Sep-2021	Equivalences	
5	22-Sep-2021	Principal of DNF	
6	23-Sep-2021	Principal of CNF &	
7	24-Sep-2021	Inference Rule	
8	27-Sep-2021	The theory of inference for the statement calculus	
9	29-Sep-2021	Predicate calculus and Problems	
10	30-Sep-2021	The Theory of the Predicate calculus	
Unit-II			
11	01-Oct-2021	Basic concepts of Set Theory	7
12	04-Oct-2021	Representation of Discrete Structure	
13	06-Oct-2021	Relation	
14	07-Oct-2021	Ordering of Set	
15	08-Oct-2021	Functions , Recursion	
16	11-Oct-2021	Recursive function.	
17	13-Oct-2021	Sets & Predicates	
Unit-III			
18	14-Oct-2021	Algebraic Systems	7
19	18-Oct-2021	Semi groups	
20	20-Oct-2021	Monoids	
21	21-Oct-2021	Grammars & Languages	
22	22-Oct-2021	Polish expression	
23	25-Oct-2021	Polish expression & their compilation	
24	27-Oct-2021	Application of Residue Arithmetic to Computers.	

Unit-IV			
25	28-Oct-2021	Lattices	8
26	29-Oct-2021	Partially ordered sets	
27	08-Nov-2021	Lattices as an Algebraic system	
28	10-Nov-2021	Boolean Algebra	
29	11-Nov-2021	Boolean Functions	
30	12-Nov-2021	Representation of Boolean Functions	
31	15-Nov-2021	Minimization of Boolean Functions	
32	17-Nov-2021	Minimization of Boolean Functions cont...	
Unit -V			
33	18-Nov-2021	Graph Theory Basic concepts	8
34	22-Nov-2021	Graph Theory Paths	
35	24-Nov-2021	Reachability	
36	25-Nov-2021	Connectedness.	
37	26-Nov-2021	Matrix representation of graphs	
38	29-Nov-2021	Matrix representation of graphs cont...	
39	01-Dec-2021	Storage Representation and Manipulation of graph	
40	02-Dec-2021	Coloring of Graphs	
Unit-VI			
41	03-Dec-2021	Basic concepts of Tree	8
42	06-Dec-2021	Tree Searching	
43	08-Dec-2021	Minimal spanning trees	
44	09-Dec-2021	Grammars, rooted tree	
45	10-Dec-2021	Expression tree, B tree	
46	13-Dec-2021	Distance between spanning trees of a graph	
47	15-Dec-2021	PERT and Related Techniques.	
48	16-Dec-2021	PERT and Related Techniques cont..	
49	17-Dec-2021		Content beyond Syllabus
50	20-Dec-2021		
51	22-Dec-2021		

Dr. A. S. Avi

[Signature]
Head
 Deptt. of Information Technology
 P.R.M.I.T. & R. Badnera-Amravati.

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2021 - 2022)

Course Number and Title: - Assembly Language Programming(3IT04)

Name of Faculty: - Prof. A. S. Mahalle

Semester :-

III

Section :- A

Lecture No.	Planned Date	Topic Name	Total hours
Unit-1			
1	14/09/2021	Introduction to Number system(Decimal, Binary, Hexadecimal)	9
2	16/09/2021	Microprocessor 8086 architecture-BIU and EU	
3	18/09/2021	pin configuration of 8086	
4	20/09/2021	pin configuration of 8086	
5	21/09/2021	Software model of 8086,	
6	23/09/2021	Memory addresses space and data organization,	
7	25/09/2021	Data types, Segment registers, memory segmentation	
8	27/09/2021	IP & Data registers, Pointer, Index registers	
9	28/09/2021	Memory addresses generation, Maximum and Minimum Modes.	
Unit-2			
10	30/09/2021	8086 Instruction set overview	8
11	04/10/2021	Addressing modes	
12	05/10/2021	8086 instruction formats	
12	07/10/2021	8086 programming: Integer instructions and computations	
14	09/10/2021	Data transfer instructions	
15	11/10/2021	Arithmetic instructions and their use in 8086 programming	
16	12/10/2021	Arithmetic instructions and their use in 8086 programming	
17	14/10/2021	Revision Unit 2	
Unit-3			
18	16/10/2021	8086 instructions: logical instructions	8
19	18/10/2021	Shift and rotate instructions and their use in 8086 programming.	
20	21/10/2021	8086 flag register and Flag control instructions	
21	23/10/2021	Compare instructions, control flow and jump instructions	
22	25/10/2021	Loops & loop handling instructions	
23	26/10/2021	8086 programming using these instructions	
24	28/10/2021	8086 programming using these instructions	

25	30/10/2021	Revision Unit 3	
Unit-4			
26	15/11/2021	Stack and Subroutines	9
27	16/11/2021	8086 stack segment and stack related instructions	
28	18/11/2021	8086 I/O Address space	
29	20/11/2021	Subroutines and related instructions	
31	22/11/2021	Parameter passing, Concept of Macros	
32	23/11/2021	Concept of recursion at assembly Program level	
33	25/11/2021	8086 programming using subroutines	
34	27/11/2021	Recursion and macros.	
35	29/11/2021	Revision Unit 4	
Unit-5			
36	30/11/2021	8086 I/O: Types of input output	8
37	02/12/2021	Isolated I/O interface	
38	09/12/2021	Input output data transfers	
39	11/12/2021	I/O instructions and bus cycles	
40	13/12/2021	Programmable Peripheral Interface 8255 PPI	
41	14/12/2021	pin diagram	
42	16/12/2021	Internal organization	
43	18/12/2021	modes of operation, Revision Unit V	
Unit-6			
44	20/12/2021	8086 Interrupts Mechanism	8
45	21/12/2021	Priority and types.	
46	23/12/2021	Interrupt vector table, Interrupt Instructions	
47	27/12/2021	External hardware-interrupt interface signals & interrupts sequence	
48	28/12/2021	PIC 8259: Block & pin diagram	
49	30/12/2021	Internal architecture	
50	01/01/2022	Software interrupts, Non-maskable interrupts	
51	03/01/2022	Internal Interrupt functions	
52	04/01/2022	8288 Bus Controller	
53	06/01/2022	Programmable Timer 8253	
54	08/01/2022	Gate Questionnaire	Content Beyond Syllabus

Faculty: - A. S. Mahalle


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

Course Number and Title: - Software Engineering (SIT03)

Name of Faculty: - Prof. A. W. Burange

Semester: - V

Section :- A

Sr No.	Planned Date	Topic Name	Total hours
UNIT-I			
1	17/08/21	Evolving role of Software.	9
2	18/08/21	Software crises & myths	
3	23/08/21	Software engineering introduction.	
4	24/08/21	Software process & process models	
5	25/08/21	Linear sequential, Prescriptive models, prototyping	
6	26/08/21	Waterfall model, Limitations of Waterfall model	
7	30/08/21	Incremental model, Evolutionary Product & Process	
8	31/08/21	Project management concepts: People, Product, Process, Project	
9	01/09/21	W5HH principles, critical practice.	
UNIT-II			
10	02/09/21	Measures, Metrics & Indicators	9
11	06/09/21	Metrics in process & project domains-software	
12	07/09/21	software measurement, Metrics for software quality	
13	08/09/21	small organization	
14	09/09/21	Software projects Planning	
15	14/09/21	Scope, resources, estimation	
16	15/09/21	decomposition technique, Tools.	
17	16/09/21	Software risks : identification, risk projection	
18	20/09/21	Refinement & RMMM plan.	
UNIT III			
19	21/09/21	Project Scheduling	9
20	22/09/21	Concepts. People Efforts	
21	23/09/21	Task set, Task network	
22	27/09/21	Scheduling. EV analysis, Project Plan	
23	28/09/21	Software quality concepts	
24	29/09/21	SQ Assurance, Software reviews, technical reviews	
25	30/09/21	Software reliability, ISO 900 L	
26	11/10/21	SCM process. Version control	
27	12/10/21	SQA Plan, SCM standard	
UNIT IV			
28	13/10/21	System Engineering: Hierarchy	9
29	14/10/21	Business Process & Product engineering	
30	18/10/21	Requirement engineering, System modeling	
31	20/10/21	Concept of Requirement analysis	

32	21/10/21	Analysis principles.	
33	25/10/21	Design Process. Design Principles & Concepts	
34	26/10/21	Effective modular design	
35	27/10/21	Design model & documentation.	
36	28/10/21	Software prototyping, Specification	
UNIT V			
37	08/11/21	Software architecture, Data Design	8
38	09/11/21	Architectural styles, Requirement mapping	
39	10/11/21	Transform & Transaction mappings	
40	11/11/21	User interface design : Golden Rule. UTD	
41	15/11/21	Task analysis & modeling, ID activities, Tools.	
42	16/11/21	Design evaluation	
43	17/11/21	Concept of Structure programming.	
44	18/11/21	Comparison of design notation, Component level design	
UNIT-VI			
45	17/11/21	Software testing fundamentals	8
46	22/11/21	test case design, Whitebox testing	
47	23/11/21	Basis path, control structure	
48	24/11/21	Blackbox-Testing, & for specialized environments	
49	25/11/21	Strategic approach to S/W testing	
50	25/11/21	Testing Introduction	
51	6/12/21	System testing, Debugging	
52	7/12/21	Technical metrics for software.	
53	8/12/21	GATE Questionnaire	Content beyond syllabus



Faculty: - Prof. A.W. Burange



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

Course Number and Title: 7IT05 Professional Elective - Distributed Database
management Systems

Name of Faculty: - Prof. G.K Wadnere
Semester :- VII

Section: A & B

Lecture No.	Planned Dates	Topic Name	Total hours
Introduction to Course			
1	11/08/2021	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 Introduction to DDBS			
2	13/08/2021	Distributed Data Processing Data Processing Vs. Data Management Systems	8
3	17/08/2021	What is a DDB Processing Traditional File Processing System Vs DDBS	
4	18/08/2021	Promises of DDBs, Problem areas	
5	20/08/2021	Overview of Relational DBMS	
6	23/08/2021	Normalization, Integrity Rules	
7	24/08/2021	Review of Computer Networks	
8	25/08/2021	Data Communication Concepts	
9	27/08/2021	Types of Network, Protocol Standard.	
Unit-2 Distributed DBMS architecture			
10	30/08/2021	Introduction to Distributed DBMS architecture	10
11	31/08/2021	DBMS standardization, Architectural Models	
12	01/09/2021	Distributed DBMS architecture	
13	03/09/2021	Distributed Database Design: Alternative Design Strategies	

14	06/09/2021	Distributed Design issues	
15	20/09/2021	Fragmentation	
16	21/09/2021	Allocation Semantic Data Control	
17	22/09/2021	View Management	
18	24/09/2021	Data Security	
19	27/09/2021	Semantic Integrity Control	
Unit-3 Overview of Query Processing			
20	28/09/2021	Overview of Query Processing	7
21	29/09/2021	Overview of Query Processing objectives	
22	01/10/2021	Types of Optimization	
23	04/10/2021	Characteristics of Query processors: Languages, Decision Sites, Exploitation of Network Topology	
24		Exploitation of Replicated fragments, Semi joins	
25	05/10/2021	Layers of Query processing, Query Decomposing, data Localization,	
26	08/10/2021	Global, Local Query Optimization,	
Unit-4 Distributed Transaction management and Concurrency control			
27	11/10/2021	Introduction to Distributed Transaction management and Concurrency control	9
28	12/10/2021	Characterization of Transaction. Formalization of Transaction Concept	
29	13/10/2021	Definition, Properties of Transaction	
30	18/10/2021	Types of Transaction	
31	20/10/2021	Serilizability: Serializability Examples	
32	22/10/2021	Taxonomy, Classification of concurrency Control Algorithms	
33	25/10/2021	Locking based concurrency control algorithms: Compatibility Matrices of Lock modes	
34	26/10/2021	Locking based concurrency control algorithms: 2PL lock Graph. Strict 2PL lock Graph	

35	27/10/2021	Deadlock management	
Unit-5 Distributed DBMS reliability			
36	29/10/2021	Distributed DBMS reliability	7
37	01/11/2021	Reliability concepts and measures	
38	02/11/2021	Failures and Fault tolerance in distributed systems	
39	03/11/2021	Failures in DDBMS	
40	05/11/2021	Local reliability protocols : Architectural Considerations. Recovery Information. Execution of LRM Commands.	
41	08/11/2021	Check pointing. Handling Media failures.	
42	09/11/2021	Dealing with site failures	
Unit-6 Distributed Object Database Management Systems			
43	10/11/2021	Distributed Object Database Management Systems	6
44	12/11/2021	Current issues	
45	15/11/2021	Data ware housing: Architectures. Olap Data Model	
46	16/11/2021	olaP Servers. Rcsarch issues.	
47	17/11/2021	World wide web	
48	19/11/2021	Mobile databases.	

Faculty: -  Prof. G.K. Wadnere


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

Course Number and Title:- SIT05 Open Elective - I (iii) Cyber law & Ethics
Name of Faculty: - Prof. H. D. Kale
Semester: - V

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1 Introduction to Cyber law			
1	27/08/2021	Evolution of computer Technology, emergence of cyber space	7
2	28/08/2021	Cyber Jurisprudence, Jurisprudence and law	
3	28/08/2021	Doctrinal approach, Consensual approach, Real Approach, Cyber Ethics	
4	03/09/2021	Cyber Jurisdiction, Hierarchy of courts, Civil and criminal jurisdictions	
5	04/09/2021	Cyberspace Web space, Web hosting and web Development agreement	
6	04/09/2021	Legal and Technological Significance of domain Names	
7	11/09/2021	Internet as a tool for global access	
Unit-2 Information Technology Act			
8	11/09/2021	Overview of IT Act, 2000, Amendments and Limitations of IT Act	7
9	17/09/2021	Digital Signatures, Cryptographic Algorithm, Public Cryptography, Private Cryptography	
10	18/09/2021	Electronic Governance, Legal Recognition of Electronic Records	
11	18/09/2021	Legal Recognition of Digital Signature	
12	24/09/2021	Certifying Authorities, Cyber Crime and Offences	
13	25/09/2021	Network Service Providers Liability, Cyber Regulations Appellate Tribunal	
14	25/09/2021	Penalties and Adjudication	
Unit-3 Cyber law and Related Legislation			
15	01/10/2021	Patent Law, Trademark Law, Copyright	8
16	08/10/2021	Software-Copyright or Patented, Domain Names and Copyright disputes	
17	09/10/2021	Electronic Data Base and its Protection, IT Act and Civil	

		Procedure Code	
18	09/10/2021	IT Act and Criminal Procedural Code, Relevant Sections of Indian Evidence Act	
19	16/10/2021	Relevant Sections of Bankers Book Evidence Act, Relevant Sections of Indian Penal Code	
20	16/10/2021	Relevant Sections of Reserve Bank of India Act	
21	22/10/2021	Law Relating To Employees And Internet, Alternative Dispute Resolution	
22	23/10/2021	Online Dispute Resolution (ODR)	
Unit-4 Electronic Business and legal issues			
23	23/10/2021	Evolution and development in E-commerce	7
24	29/10/2021	Paper vs paper less contracts	
25	30/10/2021	E-Commerce models- B2B, B2C	
26	30/10/2021	E security. Business, taxation	
27	12/11/2021	Electronic payments, supply chain	
28	13/11/2021	EDI, E-markets	
29	13/11/2021	Emerging Trends	
Unit-5 Cyber Ethics			
30	20/11/2021	The Importance of Cyber Law	7
31	20/11/2021	Significance of cyber Ethics	
32	26/11/2021	Need for Cyber regulations and Ethics	
33	27/11/2021	Ethics in Information society	
34	27/11/2021	Introduction to Artificial Intelligence Ethics,	
35	03/12/2021	Ethical Issues in AI and core Principles	
36	04/12/2021	Introduction to Block chain Ethics	


Faculty: - Prof. H. D. Kale


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2nd Year
III SEM

Prof. Ram Meghe Institute of Technology & Research,
Department of Information Technology
Teaching Plan: Session 2021-22

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	14-09-2021	Vision & Mission of Institute, Vision & Mission of Dept. PEOs, POs and PSOs, CLOs and COs, Grading Scheme, Text Books & Reference Books, Syllabus	01
UNIT-I			
2	15-09-2021	Unit I: Introduction to Object Oriented Programming:	
3	16-09-2021	Introduction, Need of OOP	
4	17-09-2021	Principles of Object-Oriented Languages	
5	21-09-2021	Procedural Language Vs OOP, Application of OOP	
6	22-09-2021	Java Compiler, Java Virtual Machine	
7	23-09-2021	Java features, Program Structures.	
8	24-09-2021	Programming Constructs: Variables, Primitive data types	12
9	28-09-2021	Identifier, Literals	
10	29-09-2021	Operators in Java, Types	
11	30-09-2021	Expressions, Precedence Rules and Associativity	
12	01-10-2021	Primitive Type Conversion and Casting	
13	05-10-2021	Flow of Control.	
UNIT-II			
14	07-10-2021	Classes and Objects: Classes, Objects	
15	08-10-2021	Creating Objects, Methods	
16	12-10-2021	Constructors	
17	13-10-2021	Cleaning up Unused Objects, Class Variable and Methods	08
18	14-10-2021	this keyword	
19	20-10-2021	Arrays	
20	21-10-2021	Arrays	
21	22-10-2021	Command Line Arguments	
UNIT-III			
22	26-10-2021	Inheritance: Inheritance vs. Aggregation	
23	27-10-2021	Polymorphism, Method Overloading Method Overriding	08
24	28-10-2021	super keyword, final keyword	

25	29-10-2021	Abstract class
26	09-11-2021	Interfaces
27	16-11-2021	Packages and Enumeration
28	17-11-2021	Interface, Packages
29	18-11-2021	java.lang package, Enum type

UNIT-IV

30	23-11-2021	Exception: Introduction, Exception handling Techniques	08
31	24-11-2021	User-defined exception	
32	25-11-2021	Exception Encapsulation and Enrichment	
33	26-11-2021	Input/Output:	
34	30-11-2021	The java.io.file Class	
35	01-12-2021	Reading and Writing data	
36	02-12-2021	Randomly Accessing a file	
37	03-12-2021	Reading and Writing Files using I/O Package	

UNIT-V

38	07-12-2021	Applets: Introduction	08
39	08-12-2021	Introduction to Applet Class	
40	09-12-2021	Applet structure, Applet Life cycle,	
41	10-12-2021	Common Methods used in displaying the output paint ()	
42	14-12-2021	update () and repaint ()	
43	15-12-2021	More about applet tag	
44	16-12-2021	getDocumentBase () and getCodeBase() methods	
45	17-12-2021	Applet class Methods	

UNIT-VI

46	21-12-2021	Event Handling: Introduction, Event delegation Model	09
47	22-12-2021	java.awt.event, Sources of events	
48	23-12-2021	Event Listeners	
49	24-12-2021	Adapter classes, Inner Classes	
50	28-12-2021	AWT: Introduction, Components and Containers	
51	29-12-2021	Button, Label, Checkbox, Radio Buttons	
52	30-12-2021	List Boxes, Choice Boxes, Textfield and Textarea	
53	31-12-2021	Container Class, Layouts	
54	04-01-2022	Menu, Scrollbar	54
Total Lectures Planned			

H.D.

Prof. H. D. Misalkar

P.V.

Dr. P. V. Ingle

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

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	11-08-21	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	9
2	12-08-21	Introduction to embedded systems	
3	13-08-21	Processor in the system, types of processor	
4	17-08-21	Hardware units required in the exemplary cases	
5	18-08-21	Software embedded into a system Final Machine implement able software for a product	
6	19-08-21	Software in Processor specific assembly language and high level language	
7	20-08-21	Device drivers device management using an operating systems	
8	24-08-21	Software design for scheduling multiple tasks and devices using RTOS	
9	25-08-21	Embedded SoC and in VLSI circuits.	
Unit-2			
10	26-08-21	Structural units of the processor	8
11	27-08-21	Allocation of memory to program segment and blocks	
12	31-08-21	Memory map of the system	
13	01-09-21	Memory blocks for different data sets and structures	
14	02-09-21	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	03-09-21	Device drivers, Virtual Devices,	
16	08-09-21	Device drivers for parallel port, serial and timing devices	
17	09-09-21	Context and periods for context switching, deadline and interrupt latency	
Unit-3			
18	14-09-21	Software programming in assembly language and C	8
19	15-09-21	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	16-09-21	Use of data structures Function pointers, Function queues and ISR queues	
21	17-09-21	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	21-09-21	Use of FIPO queues, Stacks,	
23	22-09-21	Lists and Ordered Lists	
24	23-09-21	Embedded Programming in C++	
25	24-09-21	Embedded Programming in Java	

Unit-4			
26	28-09-21	Modeling process, Use of dataflow & control data flow graphs,	7
27	29-09-21	Programming model for event controlled or response time constraint, Real time programs,	
28	30-09-21	use of finite states machine model	
29	01-10-21	finite states machine model-timer, c function	
30	28-09-21	Petri net Model	
31	08-10-21	Modeling of Multiprocessor systems	
32	12-10-21	Inter process Communication and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
Unit-5			
33	13-10-21	Use of Semaphores for a task or for Critical section of code,	8
34	14-10-21	Mutex & P & V semaphores	
35	20-10-21	Priority inversion problems & Deadlock situations	
36	21-10-21	IPC issues: Use of signals, Use of Semaphore flags	
37	22-10-21	Use of Mutex as resource key,	
38	26-10-21	Use of message queues,	
39	27-10-21	Mailboxes, pipes,	
40	28-10-21	Virtual sockets, RPCs	
Unit-6			
41	29-10-21	Introduction to RTOS, OS Services, RTOS Services,	9
42	09-11-21	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	10-11-21	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	11-11-21	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	12-11-21	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	16-11-21	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
47	17-11-21	Performance metrics, IEEE Standard POSIX 1003.1B,	
48	23-11-21	Fifteen-point' strategy for Synchronization,	
49	24-11-21	Embedded Linux Kernel	
50	25-11-21	IC Technology	
51	26-11-21	Issues in Design Technology	Content beyond Syllabus

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: - 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	11/08/2021	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	13/08/2021	Introduction to Artificial Intelligence, The AI Problems.	08
3	17/08/2021	The Underlying Assumption.	
4	18/08/2021	What is an AI Technique,	
5	20/08/2021	Problems, Problem Spaces and Search.	
6	23/08/2021	Problem Characteristics	
7	24/08/2021	Production Systems	
8	25/08/2021	Production System Characteristics	
9	27/08/2021	Issues in the Design of Search Programs	
Unit-2			
10	30/08/2021	Heuristic Search Techniques:	08
11	31/08/2021	Generate-and-Test.	
12	01/09/2021	Hill Climbing.	
13	03/09/2021	Best-first Search, A* Algorithm	
14	08/09/2021	Problem Reduction, AND-OR Graphs.	
15	14/09/2021	The AO* Algorithm,	
16	15/09/2021	Constraint Satisfaction.	
17	17/09/2021	Means ends Analysis	

IVth Year

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

Course Number and Title: -
Name of Faculty: -
Semester: -VII

Real Time Embedded System (7IT04)
Prof. A. A. Gulhane
Section: - A

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1			
1	12-08-2021	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	9
2	13-08-2021	Introduction to embedded systems	
3	17-08-2021	Processor in the system, types of processor	
4	20-08-2021	Hardware units required in the exemplary cases	
5	23-08-2021	Software embedded into a system. Final Machine implement able software for a product	
6	24-08-2021	Software in Processor specific assembly language and high level language	
7	26-08-2021	Device drivers device management using an operating systems	
8	27-08-2021	Software design for scheduling multiple tasks and devices using RTOS	
9	30-08-2021	Embedded SoC and in VLSI circuits.	
Unit-2			
10	31-08-2021	Structural units of the processor	8
11	02-09-2021	Allocation of memory to program segment and blocks	
12	03-09-2021	Memory map of the system	
13	06-09-2021	Memory blocks for different data sets and structures	
14	09-09-2021	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	14-09-2021	Device drivers, Virtual Devices,	
16	16-09-2021	Device drivers for parallel port, serial and timing devices	
17	17-09-2021	Context and periods for context switching, deadline and interrupt latency	

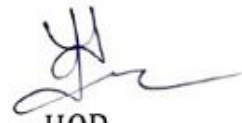
Lecture No.	Planned Dates	Topic Name	Total hours
Unit-3			
18	20-09-2021	Software programming in assembly language and C	8
19	21-09-2021	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	23-09-2021	Use of data structures Function pointers, Function queues and ISR queues	
21	24-09-2021	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	27-09-2021	Use of FIPO queues, Stacks,	
23	28-09-2021	Lists and Ordered Lists	
24	30-09-2021	Embedded Programming in C++	
25	01-10-2021	Embedded Programming in Java	
Unit-4			
26	04-10-2021	Modeling process, Use of dataflow & control data flow graphs,	7
27	05-10-2021	Programming model for event controlled or response time constraint, Real time programs,	
28	07-10-2021	use of finite states machine model	
29	08-10-2021	finite states machine model-timer, c function	
30	11-10-2021	Petri net Model	
31	12-10-2021	Modeling of Multiprocessor systems	
32	14-10-2021	IPC and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
Unit-5			
33	18-10-2021	Use of Semaphores for a task or for Critical section of code,	8
34	21-10-2021	Mutex & P & V semaphores	
35	22-10-2021	Priority inversion problems & Deadlock situations	
36	25-10-2021	IPC issues: Use of signals, Use of Semaphore flags	
37	26-10-2021	Use of Mutex as resource key,	
38	28-10-2021	Use of message queues,	
39	29-10-2021	Mailboxes, pipes,	
40	08-11-2021	Virtual sockets, RPCs	

Unit-6

41	09-11-2021	Introduction to RTOS, OS Services, RTOS Services,	9
42	11-11-2021	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	12-11-2021	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	15-11-2021	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	16-11-2021	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	18-11-2021	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
47	22-11-2021	Performance metrics, IEEE Standard POSIX 1003.1B,	
48	23-11-2021	Fifteen-point' strategy for Synchronization,	
49	25-11-2021	Embedded Linux Kernel	
50	26-11-2021	IC Technology	Content beyond Syllabus
51	29-11-2021	Issues in Design Technology	



Faculty: - Prof. A. A. Gulhane



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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Teaching Plan: Session 2021-22

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	14-09-2021	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	15-09-2021	Semiconductor Basics	09
3	16-09-2021	Transistors Basics	
4	18-09-2021	Transistor as an Amplifier	
5	21-09-2021	Faithful amplification of CE amplifier	
6	22-09-2021	Need of Transistor Biasing	
7	23-09-2021	Potential Divider Bias Circuit	
8	25-09-2021	Transistor as an Electronic Switch,	
9	27-09-2021	Field Effect Transistor, Difference between BJT & FET	
10	29-09-2021	Construction and working of JFET	
UNIT-2			
11	30-09-2021	Basics of Operational Amplifier	09
12	04-10-2021	Block diagram of operational amplifier	
13	07-10-2021	Ideal operational amplifier parameters	
14	11-10-2021	Inverting Amplifier	
15	13-10-2021	Non-Inverting Amplifier, Voltage follower	
16	14-10-2021	Solved Problems on inverting & non-inverting amplifiers	
17	16-10-2021	Summing Amplifier	
18	18-10-2021	Subtractor	
19	20-10-2021	Comparator	
UNIT-3			
20	21-10-2021	Basics of Oscillator	08
21	23-10-2021	Barkhausen Criterion	
22	25-10-2021	RC Phase Shift Oscillator	
23	27-10-2021	Transistor Crystal Oscillator	
24	28-10-2021	Block diagram of Timer IC 555	
25	30-10-2021	Astable Multivibrator	
26	08-11-2021	Monostable Multivibrator	
27	15-11-2021	Solved Problems	

Lecture No.	Planned Dates	Topic to be covered	Total Hours	
UNIT-4				
28	17-11-2021	Various Logic Gates and their truth tables	09	
29	18-11-2021	Standard logic expression forms: SOP & POS		
30	20-11-2021	Logic expression realization & minimization using K-map		
31	22-11-2021	Two variable K-map		
32	24-11-2021	Three variable K-map		
33	25-11-2021	Four variable K-map		
34	27-11-2021	Solved problems on K-map		
35	29-11-2021	Half Adder, Full Adder		
36	01-12-2021	Half subtractor, Full subtractor		
UNIT-5				
37	02-12-2021	Difference between Combinational and Sequential circuits	08	
38	04-12-2021	Code convertors (BCD, Excess-3 and Gray)		
39	06-12-2021	Multiplexers		
40	08-12-2021	De-multiplexers		
41	09-12-2021	Decoders		
42	11-12-2021	SR flip-flop		
43	13-12-2021	JK flip-flop		
44	15-12-2021	D flip-flop & T flip-flop		
UNIT-6				
45	16-12-2021	Difference between Asynchronous and Synchronous sequential circuits	08	
46	18-12-2021	Asynchronous Counters		
47	20-12-2021	Up-Counter		
48	22-12-2021	Down-Counter		
49	23-12-2021	Mod Counter		
50	27-12-2021	Working of Shift Registers, SISO		
51	29-12-2021	SIPO, PISO and PIPO		
52	30-12-2021	Application of Shift Register as a Ring Counter		
53	01-01-2022	Difficulty Session-I		02
54	03-01-2022	Difficulty Session-II		
Total Lectures Planned				54


Prof. A. G. Mahalle


Dr. P. V. Ingole
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Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Information Technology

Session:2018-19

Course Number and Title: - Discrete Structure & Graph Theory (3IT02)

Name of Faculty: -Dr. A. S. Alvi

Semester:-IIIrd Sem

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1			
1	15-Sep-2021	Statements & Notation	10
2	16-Sep-2021	Connectives	
3	17-Sep-2021	Normal forms	
4	20-Sep-2021	Equivalences	
5	22-Sep-2021	Principal of DNF	
6	23-Sep-2021	Principal of CNF &	
7	24-Sep-2021	Inference Rule	
8	27-Sep-2021	The theory of inference for the statement calculus	
9	29-Sep-2021	Predicate calculus and Problems	
10	30-Sep-2021	The Theory of the Predicate calculus	
Unit-II			
11	01-Oct-2021	Basic concepts of Set Theory	7
12	04-Oct-2021	Representation of Discrete Structure	
13	06-Oct-2021	Relation	
14	07-Oct-2021	Ordering of Set	
15	08-Oct-2021	Functions , Recursion	
16	11-Oct-2021	Recursive function.	
17	13-Oct-2021	Sets & Predicates	
Unit-III			
18	14-Oct-2021	Algebraic Systems	7
19	18-Oct-2021	Semi groups	
20	20-Oct-2021	Monoids	
21	21-Oct-2021	Grammars& Languages	
22	22-Oct-2021	Polish expression	
23	25-Oct-2021	Polish expression & their compilation	
24	27-Oct-2021	Application of Residue Arithmetic to Computers.	

Unit-IV			
25	28-Oct-2021	Lattices	8
26	29-Oct-2021	Partially ordered sets	
27	08-Nov-2021	Lattices as an Algebraic system	
28	10-Nov-2021	Boolean Algebra	
29	11-Nov-2021	Boolean Functions	
30	12-Nov-2021	Representation of Boolean Functions	
31	15-Nov-2021	Minimization of Boolean Functions	
32	17-Nov-2021	Minimization of Boolean Functions cont...	
Unit -V			
33	18-Nov-2021	Graph Theory Basic concepts	8
34	22-Nov-2021	Graph Theory Paths	
35	24-Nov-2021	Reachability	
36	25-Nov-2021	Connectedness.	
37	26-Nov-2021	Matrix representation of graphs	
38	29-Nov-2021	Matrix representation of graphs cont...	
39	01-Dec-2021	Storage Representation and Manipulation of graph	
40	02-Dec-2021	Coloring of Graphs	
Unit-VI			
41	03-Dec-2021	Basic concepts of Tree	8
42	06-Dec-2021	Tree Searching	
43	08-Dec-2021	Minimal spanning trees	
44	09-Dec-2021	Grammars, rooted tree	
45	10-Dec-2021	Expression tree, B tree	
46	13-Dec-2021	Distance between spanning trees of a graph	
47	15-Dec-2021	PERT and Related Techniques.	
48	16-Dec-2021	PERT and Related Techniques cont..	
49	17-Dec-2021		Content beyond Syllabus
50	20-Dec-2021		
51	22-Dec-2021		

Dr. A. S. Avi

[Signature]
Head
 Deptt. of Information Technology
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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2021 - 2022)

Course Number and Title: - Assembly Language Programming(3IT04)

Name of Faculty: - Prof. A. S. Mahalle

Semester :-

III

Section :- A

Lecture No.	Planned Date	Topic Name	Total hours
Unit-1			
1	14/09/2021	Introduction to Number system(Decimal, Binary, Hexadecimal)	9
2	16/09/2021	Microprocessor 8086 architecture-BIU and EU	
3	18/09/2021	pin configuration of 8086	
4	20/09/2021	pin configuration of 8086	
5	21/09/2021	Software model of 8086,	
6	23/09/2021	Memory addresses space and data organization,	
7	25/09/2021	Data types, Segment registers, memory segmentation	
8	27/09/2021	IP & Data registers, Pointer, Index registers	
9	28/09/2021	Memory addresses generation, Maximum and Minimum Modes.	
Unit-2			
10	30/09/2021	8086 Instruction set overview	8
11	04/10/2021	Addressing modes	
12	05/10/2021	8086 instruction formats	
12	07/10/2021	8086 programming: Integer instructions and computations	
14	09/10/2021	Data transfer instructions	
15	11/10/2021	Arithmetic instructions and their use in 8086 programming	
16	12/10/2021	Arithmetic instructions and their use in 8086 programming	
17	14/10/2021	Revision Unit 2	
Unit-3			
18	16/10/2021	8086 instructions: logical instructions	8
19	18/10/2021	Shift and rotate instructions and their use in 8086 programming.	
20	21/10/2021	8086 flag register and Flag control instructions	
21	23/10/2021	Compare instructions, control flow and jump instructions	
22	25/10/2021	Loops & loop handling instructions	
23	26/10/2021	8086 programming using these instructions	
24	28/10/2021	8086 programming using these instructions	

25	30/10/2021	Revision Unit 3	
Unit-4			
26	15/11/2021	Stack and Subroutines	9
27	16/11/2021	8086 stack segment and stack related instructions	
28	18/11/2021	8086 I/O Address space	
29	20/11/2021	Subroutines and related instructions	
31	22/11/2021	Parameter passing, Concept of Macros	
32	23/11/2021	Concept of recursion at assembly Program level	
33	25/11/2021	8086 programming using subroutines	
34	27/11/2021	Recursion and macros.	
35	29/11/2021	Revision Unit 4	
Unit-5			
36	30/11/2021	8086 I/O: Types of input output	8
37	02/12/2021	Isolated I/O interface	
38	09/12/2021	Input output data transfers	
39	11/12/2021	I/O instructions and bus cycles	
40	13/12/2021	Programmable Peripheral Interface 8255 PPI	
41	14/12/2021	pin diagram	
42	16/12/2021	Internal organization	
43	18/12/2021	modes of operation, Revision Unit V	
Unit-6			
44	20/12/2021	8086 Interrupts Mechanism	8
45	21/12/2021	Priority and types.	
46	23/12/2021	Interrupt vector table, Interrupt Instructions	
47	27/12/2021	External hardware-interrupt interface signals & interrupts sequence	
48	28/12/2021	PIC 8259: Block & pin diagram	
49	30/12/2021	Internal architecture	
50	01/01/2022	Software interrupts, Non-maskable interrupts	
51	03/01/2022	Internal Interrupt functions	
52	04/01/2022	8288 Bus Controller	
53	06/01/2022	Programmable Timer 8253	
54	08/01/2022	Gate Questionnaire	Content Beyond Syllabus

Faculty: - A. S. Mahalle


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

Course Number and Title: - Software Engineering (SIT03)

Name of Faculty: - Prof. A. W. Burange

Semester: - V

Section :- A

Sr No.	Planned Date	Topic Name	Total hours
UNIT-I			
1	17/08/21	Evolving role of Software.	9
2	18/08/21	Software crises & myths	
3	23/08/21	Software engineering introduction.	
4	24/08/21	Software process & process models	
5	25/08/21	Linear sequential, Prescriptive models, prototyping	
6	26/08/21	Waterfall model, Limitations of Waterfall model	
7	30/08/21	Incremental model, Evolutionary Product & Process	
8	31/08/21	Project management concepts: People, Product, Process, Project	
9	01/09/21	W5HH principles, critical practice.	
UNIT-II			
10	02/09/21	Measures, Metrics & Indicators	9
11	06/09/21	Metrics in process & project domains-software	
12	07/09/21	software measurement, Metrics for software quality	
13	08/09/21	small organization	
14	09/09/21	Software projects Planning	
15	14/09/21	Scope, resources, estimation	
16	15/09/21	decomposition technique, Tools.	
17	16/09/21	Software risks : identification, risk projection	
18	20/09/21	Refinement & RMMM plan.	
UNIT III			
19	21/09/21	Project Scheduling	9
20	22/09/21	Concepts. People Efforts	
21	23/09/21	Task set, Task network	
22	27/09/21	Scheduling. EV analysis, Project Plan	
23	28/09/21	Software quality concepts	
24	29/09/21	SQ Assurance, Software reviews, technical reviews	
25	30/09/21	Software reliability, ISO 900 L	
26	11/10/21	SCM process. Version control	
27	12/10/21	SQA Plan, SCM standard	
UNIT IV			
28	13/10/21	System Engineering: Hierarchy	9
29	14/10/21	Business Process & Product engineering	
30	18/10/21	Requirement engineering, System modeling	
31	20/10/21	Concept of Requirement analysis	

32	21/10/21	Analysis principles.	
33	25/10/21	Design Process. Design Principles & Concepts	
34	26/10/21	Effective modular design	
35	27/10/21	Design model & documentation.	
36	28/10/21	Software prototyping, Specification	
UNIT V			
37	08/11/21	Software architecture, Data Design	8
38	09/11/21	Architectural styles, Requirement mapping	
39	10/11/21	Transform & Transaction mappings	
40	11/11/21	User interface design : Golden Rule. UTD	
41	15/11/21	Task analysis & modeling, ID activities, Tools.	
42	16/11/21	Design evaluation	
43	17/11/21	Concept of Structure programming.	
44	18/11/21	Comparison of design notation, Component level design	
UNIT-VI			
45	17/11/21	Software testing fundamentals	8
46	22/11/21	test case design, Whitebox testing	
47	23/11/21	Basis path, control structure	
48	24/11/21	Blackbox-Testing, & for specialized environments	
49	25/11/21	Strategic approach to S/W testing	
50	25/11/21	Testing Introduction	
51	6/12/21	System testing, Debugging	
52	7/12/21	Technical metrics for software.	
53	8/12/21	GATE Questionnaire	Content beyond syllabus



Faculty: - Prof. A.W. Burange



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

Course Number and Title: 7IT05 Professional Elective - Distributed Database management Systems


Name of Faculty: - Prof. G.K Wadnere
Semester :- VII

Section: A & B

Lecture No.	Planned Dates	Topic Name	Total hours
Introduction to Course			
1	11/08/2021	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 Introduction to DDBS			
2	13/08/2021	Distributed Data Processing Data Processing Vs. Data Management Systems	8
3	17/08/2021	What is a DDB Processing Traditional File Processing System Vs DDBS	
4	18/08/2021	Promises of DDBs, Problem areas	
5	20/08/2021	Overview of Relational DBMS	
6	23/08/2021	Normalization, Integrity Rules	
7	24/08/2021	Review of Computer Networks	
8	25/08/2021	Data Communication Concepts	
9	27/08/2021	Types of Network, Protocol Standard.	
Unit-2 Distributed DBMS architecture			
10	30/08/2021	Introduction to Distributed DBMS architecture	10
11	31/08/2021	DBMS standardization, Architectural Models	
12	01/09/2021	Distributed DBMS architecture	
13	03/09/2021	Distributed Database Design: Alternative Design Strategies	

14	06/09/2021	Distributed Design issues	
15	20/09/2021	Fragmentation	
16	21/09/2021	Allocation Semantic Data Control	
17	22/09/2021	View Management	
18	24/09/2021	Data Security	
19	27/09/2021	Semantic Integrity Control	
Unit-3 Overview of Query Processing			
20	28/09/2021	Overview of Query Processing	7
21	29/09/2021	Overview of Query Processing objectives	
22	01/10/2021	Types of Optimization	
23	04/10/2021	Characteristics of Query processors: Languages, Decision Sites, Exploitation of Network Topology	
24		Exploitation of Replicated fragments, Semi joins	
25	05/10/2021	Layers of Query processing, Query Decomposing, data Localization,	
26	08/10/2021	Global, Local Query Optimization,	
Unit-4 Distributed Transaction management and Concurrency control			
27	11/10/2021	Introduction to Distributed Transaction management and Concurrency control	9
28	12/10/2021	Characterization of Transaction. Formalization of Transaction Concept	
29	13/10/2021	Definition, Properties of Transaction	
30	18/10/2021	Types of Transaction	
31	20/10/2021	Serilizability: Serializability Examples	
32	22/10/2021	Taxonomy, Classification of concurrency Control Algorithms	
33	25/10/2021	Locking based concurrency control algorithms: Compatibility Matrices of Lock modes	
34	26/10/2021	Locking based concurrency control algorithms: 2PL lock Graph. Strict 2PL lock Graph	

35	27/10/2021	Deadlock management	
Unit-5 Distributed DBMS reliability			
36	29/10/2021	Distributed DBMS reliability	7
37	01/11/2021	Reliability concepts and measures	
38	02/11/2021	Failures and Fault tolerance in distributed systems	
39	03/11/2021	Failures in DDBMS	
40	05/11/2021	Local reliability protocols : Architectural Considerations. Recovery Information. Execution of LRM Commands.	
41	08/11/2021	Check pointing. Handling Media failures.	
42	09/11/2021	Dealing with site failures	
Unit-6 Distributed Object Database Management Systems			
43	10/11/2021	Distributed Object Database Management Systems	6
44	12/11/2021	Current issues	
45	15/11/2021	Data ware housing: Architectures. Olap Data Model	
46	16/11/2021	olaP Servers. Rcsarch issues.	
47	17/11/2021	World wide web	
48	19/11/2021	Mobile databases.	

Faculty: -  Prof. G.K Wadnere


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

Course Number and Title:- SIT05 Open Elective - I (iii) Cyber law & Ethics
 Name of Faculty: - Prof. H. D. Kale
 Semester: - V

Lecture No.	Planned Dates	Topic Name	Total hours
Unit-1 Introduction to Cyber law			
1	27/08/2021	Evolution of computer Technology, emergence of cyber space	7
2	28/08/2021	Cyber Jurisprudence, Jurisprudence and law	
3	28/08/2021	Doctrinal approach, Consensual approach, Real Approach, Cyber Ethics	
4	03/09/2021	Cyber Jurisdiction, Hierarchy of courts, Civil and criminal jurisdictions	
5	04/09/2021	Cyberspace Web space, Web hosting and web Development agreement	
6	04/09/2021	Legal and Technological Significance of domain Names	
7	11/09/2021	Internet as a tool for global access	
Unit-2 Information Technology Act			
8	11/09/2021	Overview of IT Act, 2000, Amendments and Limitations of IT Act	7
9	17/09/2021	Digital Signatures, Cryptographic Algorithm, Public Cryptography, Private Cryptography	
10	18/09/2021	Electronic Governance, Legal Recognition of Electronic Records	
11	18/09/2021	Legal Recognition of Digital Signature	
12	24/09/2021	Certifying Authorities, Cyber Crime and Offences	
13	25/09/2021	Network Service Providers Liability, Cyber Regulations Appellate Tribunal	
14	25/09/2021	Penalties and Adjudication	
Unit-3 Cyber law and Related Legislation			
15	01/10/2021	Patent Law, Trademark Law, Copyright	8
16	08/10/2021	Software-Copyright or Patented, Domain Names and Copyright disputes	
17	09/10/2021	Electronic Data Base and its Protection, IT Act and Civil	

		Procedure Code	
18	09/10/2021	IT Act and Criminal Procedural Code, Relevant Sections of Indian Evidence Act	
19	16/10/2021	Relevant Sections of Bankers Book Evidence Act, Relevant Sections of Indian Penal Code	
20	16/10/2021	Relevant Sections of Reserve Bank of India Act	
21	22/10/2021	Law Relating To Employees And Internet, Alternative Dispute Resolution	
22	23/10/2021	Online Dispute Resolution (ODR)	
Unit-4 Electronic Business and legal issues			
23	23/10/2021	Evolution and development in E-commerce	7
24	29/10/2021	Paper vs paper less contracts	
25	30/10/2021	E-Commerce models- B2B, B2C	
26	30/10/2021	E security. Business, taxation	
27	12/11/2021	Electronic payments, supply chain	
28	13/11/2021	EDI, E-markets	
29	13/11/2021	Emerging Trends	
Unit-5 Cyber Ethics			
30	20/11/2021	The Importance of Cyber Law	7
31	20/11/2021	Significance of cyber Ethics	
32	26/11/2021	Need for Cyber regulations and Ethics	
33	27/11/2021	Ethics in Information society	
34	27/11/2021	Introduction to Artificial Intelligence Ethics,	
35	03/12/2021	Ethical Issues in AI and core Principles	
36	04/12/2021	Introduction to Block chain Ethics	


Faculty: - Prof. H. D. Kale


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2nd Year
III SEM

Prof. Ram Meghe Institute of Technology & Research,
Department of Information Technology
Teaching Plan: Session 2021-22

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	14-09-2021	Vision & Mission of Institute, Vision & Mission of Dept. PEOs, POs and PSOs, CLOs and COs, Grading Scheme, Text Books & Reference Books, Syllabus	01
UNIT-I			
2	15-09-2021	Unit I: Introduction to Object Oriented Programming:	
3	16-09-2021	Introduction, Need of OOP	
4	17-09-2021	Principles of Object-Oriented Languages	
5	21-09-2021	Procedural Language Vs OOP, Application of OOP	
6	22-09-2021	Java Compiler, Java Virtual Machine	
7	23-09-2021	Java features, Program Structures.	
8	24-09-2021	Programming Constructs: Variables, Primitive data types	12
9	28-09-2021	Identifier, Literals	
10	29-09-2021	Operators in Java, Types	
11	30-09-2021	Expressions, Precedence Rules and Associativity	
12	01-10-2021	Primitive Type Conversion and Casting	
13	05-10-2021	Flow of Control.	
UNIT-II			
14	07-10-2021	Classes and Objects: Classes, Objects	
15	08-10-2021	Creating Objects, Methods	
16	12-10-2021	Constructors	
17	13-10-2021	Cleaning up Unused Objects, Class Variable and Methods	08
18	14-10-2021	this keyword	
19	20-10-2021	Arrays	
20	21-10-2021	Arrays	
21	22-10-2021	Command Line Arguments	
UNIT-III			
22	26-10-2021	Inheritance: Inheritance vs. Aggregation	
23	27-10-2021	Polymorphism, Method Overloading Method Overriding	08
24	28-10-2021	super keyword, final keyword	

25	29-10-2021	Abstract class
26	09-11-2021	Interfaces
27	16-11-2021	Packages and Enumeration
28	17-11-2021	Interface, Packages
29	18-11-2021	java.lang package, Enum type

UNIT-IV

30	23-11-2021	Exception: Introduction, Exception handling Techniques	08
31	24-11-2021	User-defined exception	
32	25-11-2021	Exception Encapsulation and Enrichment	
33	26-11-2021	Input/Output:	
34	30-11-2021	The java.io.file Class	
35	01-12-2021	Reading and Writing data	
36	02-12-2021	Randomly Accessing a file	
37	03-12-2021	Reading and Writing Files using I/O Package	

UNIT-V

38	07-12-2021	Applets: Introduction	08
39	08-12-2021	Introduction to Applet Class	
40	09-12-2021	Applet structure, Applet Life cycle,	
41	10-12-2021	Common Methods used in displaying the output paint ()	
42	14-12-2021	update () and repaint ()	
43	15-12-2021	More about applet tag	
44	16-12-2021	getDocumentBase () and getCodeBase() methods	
45	17-12-2021	Applet class Methods	

UNIT-VI

46	21-12-2021	Event Handling: Introduction, Event delegation Model	09
47	22-12-2021	java.awt.event, Sources of events	
48	23-12-2021	Event Listeners	
49	24-12-2021	Adapter classes, Inner Classes	
50	28-12-2021	AWT: Introduction, Components and Containers	
51	29-12-2021	Button, Label, Checkbox, Radio Buttons	
52	30-12-2021	List Boxes, Choice Boxes, Textfield and Textarea	
53	31-12-2021	Container Class, Layouts	
54	04-01-2022	Menu, Scrollbar	54
Total Lectures Planned			

H.D.

Prof. H. D. Misalkar

P.V.

Dr. P. V. Ingle

HODIT

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

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	11-08-21	Discussion on Vision, Mission, CLO, PEO, Syllabus, Graduate Attributes, Objective of Subject	9
2	12-08-21	Introduction to embedded systems	
3	13-08-21	Processor in the system, types of processor	
4	17-08-21	Hardware units required in the exemplary cases	
5	18-08-21	Software embedded into a system Final Machine implement able software for a product	
6	19-08-21	Software in Processor specific assembly language and high level language	
7	20-08-21	Device drivers device management using an operating systems	
8	24-08-21	Software design for scheduling multiple tasks and devices using RTOS	
9	25-08-21	Embedded SoC and in VLSI circuits.	
Unit-2			
10	26-08-21	Structural units of the processor	8
11	27-08-21	Allocation of memory to program segment and blocks	
12	31-08-21	Memory map of the system	
13	01-09-21	Memory blocks for different data sets and structures	
14	02-09-21	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
15	03-09-21	Device drivers, Virtual Devices,	
16	08-09-21	Device drivers for parallel port, serial and timing devices	
17	09-09-21	Context and periods for context switching, deadline and interrupt latency	
Unit-3			
18	14-09-21	Software programming in assembly language and C	8
19	15-09-21	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
20	16-09-21	Use of data structures Function pointers, Function queues and ISR queues	
21	17-09-21	Queues for implementing protocol for a network, Queuing of functions on interrupts	
22	21-09-21	Use of FIPO queues, Stacks,	
23	22-09-21	Lists and Ordered Lists	
24	23-09-21	Embedded Programming in C++	
25	24-09-21	Embedded Programming in Java	

Unit-4			
26	28-09-21	Modeling process, Use of dataflow & control data flow graphs,	7
27	29-09-21	Programming model for event controlled or response time constraint, Real time programs,	
28	30-09-21	use of finite states machine model	
29	01-10-21	finite states machine model-timer, c function	
30	28-09-21	Petri net Model	
31	08-10-21	Modeling of Multiprocessor systems	
32	12-10-21	Inter process Communication and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
Unit-5			
33	13-10-21	Use of Semaphores for a task or for Critical section of code,	8
34	14-10-21	Mutex & P & V semaphores	
35	20-10-21	Priority inversion problems & Deadlock situations	
36	21-10-21	IPC issues: Use of signals, Use of Semaphore flags	
37	22-10-21	Use of Mutex as resource key,	
38	26-10-21	Use of message queues,	
39	27-10-21	Mailboxes, pipes,	
40	28-10-21	Virtual sockets, RPCs	
Unit-6			
41	29-10-21	Introduction to RTOS, OS Services, RTOS Services,	9
42	09-11-21	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
43	10-11-21	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
44	11-11-21	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
45	12-11-21	Preemptive scheduling, Critical section service by preemptive scheduler,	
46	16-11-21	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
47	17-11-21	Performance metrics, IEEE Standard POSIX 1003.1B,	
48	23-11-21	Fifteen-point' strategy for Synchronization,	
49	24-11-21	Embedded Linux Kernel	
50	25-11-21	IC Technology	
51	26-11-21	Issues in Design Technology	Content beyond Syllabus

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: - 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	11/08/2021	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	13/08/2021	Introduction to Artificial Intelligence, The AI Problems.	08
3	17/08/2021	The Underlying Assumption.	
4	18/08/2021	What is an AI Technique,	
5	20/08/2021	Problems, Problem Spaces and Search.	
6	23/08/2021	Problem Characteristics	
7	24/08/2021	Production Systems	
8	25/08/2021	Production System Characteristics	
9	27/08/2021	Issues in the Design of Search Programs	
Unit-2			
10	30/08/2021	Heuristic Search Techniques:	08
11	31/08/2021	Generate-and-Test.	
12	01/09/2021	Hill Climbing.	
13	03/09/2021	Best-first Search, A* Algorithm	
14	08/09/2021	Problem Reduction, AND-OR Graphs.	
15	14/09/2021	The AO* Algorithm,	
16	15/09/2021	Constraint Satisfaction.	
17	17/09/2021	Means ends Analysis	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: S. J. Deshmukh Semester VIII Section: A/B/C

Subject Code: 3ME02 Subject Name: Refrigeration & A/c



Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	01/02/22	Introduction to Ref. & VCRs.	[Signature]	
2	02/02/22	Analysis of VCR systems.	[Signature]	
3	04/02/22	Numericals on simple VCR.	[Signature]	
4	3/02/22	Numericals on VCR.	[Signature]	
5	8/02/22	Actual VCR & Ref. classification	[Signature]	
6	10/2/22	Properties of Ref.	[Signature]	
7	14/2/22	Introduction to multistage VCR	[Signature]	
8	15/02/22	Compound comp.	[Signature]	
9	13/02/22	Flash gas removal and flash inter	[Signature]	
10	4/2/22	Complete compound VCRs.	[Signature]	
11	24/02/22	Multi evaporator systems.	[Signature]	
12	26/02/22	M.E.S. with individual exp. val.	[Signature]	
13	26/02/22	Cas-cade systems.	[Signature]	
14	28/02/22	Numericals on compound comp.	[Signature]	
15	2/03/22	Numericals on Multi exp. systems	[Signature]	
16	3/3/22	Numericals.	[Signature]	
17	3/03/22	Psychometric properties of Air.	[Signature]	
18	8/3/22	Psychometric chart	[Signature]	
19	10/3/22	Different psy. processes.	[Signature]	
20	14/3/22	Mixing of two streams of air	[Signature]	
21	10/03/22	Air washers and human comfort	[Signature]	
22	12/3/22	Numericals.	[Signature]	
23	14/3/22	Numericals.	[Signature]	
24	15/3/22	Introduction to AC systems.	[Signature]	
25	16/3/22	Window, split, central systems	[Signature]	
26	21/3/22	Year round A/c system.	[Signature]	

[Signature]
 Head of Department
 Mechanical Engineering
 P. R. M. I. T. & R. Badnera

Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: V. V. Kale

Semester IVth

Section: NP/E

A

Subject Code: 4ME03

Subject Name: Manufacturing Technology

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	23/1/22	Thermal processes like EDM, USM, PAM Concept & applications	}	}
28	23/1/22	EDM, types of die sinking, wire cut EDM, process parameters, advantages & applications.		
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Dept. of Mechanical Engineering
R.R.M.T & R. Bachera

(Prof VVK)

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: C. R. Amodele Semester VI

Section: A/B/C

E-lectra

Subject Code: _____ Subject Name: NES

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/2/22	Global and Indian energy scenario		
2	15/2/22	Need of Renewable energy, need of Renewable and non renewable energy sources, energy and environment		
3	16/2/22	Solar constant Definitions of basic earth-sun angles Types of solar radiation		
4	21/2/22	Measurement of solar radiation using Pyrheliometer, Pyranometer and Sunshine Recorder		
5	22/2/22	Estimation of solar radiation intensity		
6	23/2/22	Low temperature applications: solar water heating, space heating, drying		
7	2/3/22	High temperature applications, dish and parabolic collectors. Central tower solar thermal power plants		
8	3/3/22	Solar energy storage and utilization: Methods of storage- mechanical, thermal, electrical storage systems		
9	8/3/22	Basic principle of power generation in a PV cell Types of photovoltaic cell Application of PV		
10	22/3/22	Brief outline of solar PV stand-alone system		
11	23/3/22	Storage battery and Balance of system		
12	24/3/22	Wind Energy Systems: Potential of wind electricity generation in India and current scenario		
13	24/3/22	Wind pattern and wind speed data Types of turbines Coefficient of Power, Betz limit		
14	24/3/22	Wind electric generators, Power curve Wind characteristics and site selection		
15	30/3/22	Windfarms for bulk power supply to grid		
16	30/3/22	Application for pumping		

HOD
 Dept. of Mechanical Engineering
 P.R.M.I. & R. Badnera

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
		<u>Unit - V</u>		
23	27/3/22	Frequency Response Analysis	[Signature]	[Signature]
24	28/3/22	concept & Deriving of FRA		
25	30/3/22	Construction & procedure		
26	31/3/22	Numerical on FRA		
27	1/4/22	Numerical on FRA		
28	2/4/22	Numerical on FRA		
		<u>Unit - VI</u>		
29	3/4/22	Basic control action (controller)	[Signature]	[Signature]
30	3/4/22	Basic control action (controller)		
31	6/4/22	Classification of industrial controller		
32	8/4/22	— II — Proportional controller		
33	9/4/22	obtaining integral control action		
34	20/4/22	effect of integral & derivative controller		
		<u>Unit - VII</u>		
35	21/4/22	Speed control system, prime mover	[Signature]	[Signature]
36	27/4/22	system generator		
37	4/5/22	Automated speed system		
38	6/5/22	Important system generator		
39	11/5/22	servomotor		

Dr. S.M. Patil
 Head of Department
 Electrical Engineering
 J. J. Somaiya Institute of Technology & Research, Badliwadi

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty:- R. S. Sakore Semester VIth Section: M/B/1 B
 Subject Code: 6ME05 Subject Name: Automobile Engg (Open Elective)

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
01	11-02-22	Introduction to Automobiles	<u>R.S.</u>	
02	17-02-22	Classification of Automobiles	<u>R.S.</u>	
03	18-02-22	Chassis types & Basic Parts	<u>R.S.</u>	
04	18-02-22	Engine Parts & Firing Order	<u>R.S.</u>	
05	24-02-22	Introduction to SI & CI Engines	<u>R.S.</u>	
06	25-02-22	Revision & details above	<u>R.S.</u>	
07	25-02-22	2-stroke & 4-stroke SI Engine	<u>R.S.</u>	
08	03-03-22	Fuel feed system, Role	<u>R.S.</u>	
09	03-03-22	Air Filter & fuel Filter	<u>R.S.</u>	
10	09-03-22	M PFI & CRDI Engine	<u>R.S.</u>	
11	10-03-22	CPU/MCU / Body Control Unit	<u>R.S.</u>	
12	10-03-22	Role of MCU in Fuel feed and Ignition System	<u>R.S.</u>	
13	10-03-22	Cooling system, Types	<u>R.S.</u>	
14	11-03-22	Anti freeze Mixture	<u>R.S.</u>	
15	11-03-22	Electrical System	<u>R.S.</u>	
16	17-03-22	Battery, Battery Capacity	<u>R.S.</u>	
17	17-03-22	Battery Rating.	<u>R.S.</u>	
18	24-03-22	Starter Motor Drive	<u>R.S.</u>	
19	25-03-22	Ignition System - Types	<u>R.S.</u>	
20	25-03-22	Battery Ignition System	<u>R.S.</u>	
21	31-03-22	Transmission sys & func ⁿ	<u>R.S.</u>	
22	01-04-22	Clutch func ⁿ & its Types.	<u>R.S.</u>	
23	01-04-22	Single plate clutch	<u>R.S.</u>	
24	07-04-22	Multi plate clutch	<u>R.S.</u>	
25	08-04-22	Gear Box & its Types	<u>R.S.</u>	

I

II

I

II

[Signature]
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 Prof. Ram Meghe Institute of Technology & Research, Badnera

EXECUTION PLAN

Name of Faculty: R. S. Sakarkar Semester VIIth Section: A/B/C B
 Subject Code: GME05 Subject Name: Automobile Engrg (Open Elective - II)

Sr. No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
25	08-04-22	Sliding Mesh Gear Box		
26	21-04-22	Constant Mesh Gear Box		
27	22-04-22	Gear Box Drive Appl ⁿ according		
28	22-04-22	Types of G.B. & its Adv.		
29	28-04-22	Breaking System		
30	28-04-22	Brakes Types according to Appl ⁿ		
31	29-04-22	Mech & Hydraulic Brakes		
32	29-04-22	Steering system; power steering		
33	05-05-22	Alignment system, Toe in Out		
34	06-05-22	Balancing, KPI, caster Angle		
35	06-05-22	Caster Angle/Camber Angle		
36	12-05-22	Suspension system; Types		
37	13-05-22	Shock absorber & Uses		
38	13-05-22	Telescopic shock absorber		
39	19-05-22	Role of Lubricating in Automobile		
40	20-05-22	Types of Lubricant SAE SH.		
41	20-05-22	Dry and Wet sump Lubrication } Adv & its Dis Adv.		

APPROVED BY:
 HOD
 P. S. ...

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: A.S. Deshmukh Semester 4th Section: A/D/C C
 Subject Code: 4ME06 Subject Name: Hydraulic & Pneumatic systems

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/03/22	<u>Unit-I</u> Introduction of H.P.N.S	-ASD	
2	11/03/22	What is hydraulic turbines, classification	-ASD	
3	12/03/22	Theory of Impulse & Reaction turbine	-ASD	
4	12/03/22	For Pelton wheel turbine theory	-ASD	
5	22/03/22	Pelton wheel turbine expression	-ASD	
6	23/03/22	Problems, based on Pelton wheel	-ASD	
7	23/03/22	Francis turbine theory	-ASD	
8	24/03/22	Francis turbine expression	-ASD	
9	24/03/22	Numericals based on Francis	-ASD	
10	25/03/22	Kaplan theory & expression	-ASD	
11	26/03/22	Numericals based on Kaplan turbine	-ASD	
12	31/03/22	What is draft tube & its importance	-ASD	
13	7/04/22	<u>Unit-II</u> Introduction to centrifugal pump	-ASD	
14	8/04/22	Basic theory & classification of C.P	-ASD	
15	9/04/22	Main components of a centrifugal pump.	-ASD	
16	21/04/22	Minimum speed for starting a Cent. pump	-ASD	
17	22/04/22	Numericals based on work done	-ASD	
18	23/04/22	Numericals based on efficiency	-ASD	
19	28/04/22	What is NPSH & cavitation in pumps	-ASD	
20	29/04/22	<u>Unit-III</u> Introduction to axial flow pumps	-ASD	
21	30/04/22	basic theory & operation of axial flow pump	-ASD	
22	5/05/22	Air lift pump, jet pump, & theory & operation	-ASD	
23	6/05/22	Hydraulic ram pump basic theory & operation	-ASD	
24	7/05/22	What is CFD & its importance	-ASD	
25	12/05/22	Need Necessity, limitations of CFD	-ASD	
26	18/05/22	<u>Unit-IV</u> Reciprocation pump Introduction	-ASD	

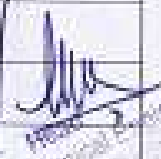
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 Mechanical Engineering
 Prof. Ram Meghe Institute of Technology & Research, Badnera

Execution Plan

Name of Faculty: V.V. Kale Semester IVth Section: A/B/C

Subject Code: 4ME03 Subject Name: Manufacturing Technology

A

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/3/22	Introduction to Machining Processes, Metal cutting	✓	 HOD Department of Electrical Engineering VIT-AP Vellore
2	24/3/22	Mechanics of Metal cutting, Tool materials.	✓	
3	25/3/22	Tool geometry, cutting tool classification, Tool Life	✓	
4	30/3/22	Tool wear, Calculations of cutting forces, Heat generation zones.	✓	
5	01/4/22	Machinability, Cutting Fluids, Types of chips	✓	
6	06/4/22	Chip thickness ratio, Merchant circle.	✓	
7	08/4/22	Construction, parts & operations on Lathe	✓	
8	09/4/22	Accessories of centre Lathe, Intro to automatic lathe	✓	
9	12/4/22	Indexing, bar feeding Mechanism & differences between centre lathe & Capstan lathe.	✓	
10	20/4/22	Machine tool classification, Numerical approach	✓	
11	22/4/22	Tap turning, Screw cutting & other ops on lathe	✓	
12	23/4/22	Concept of CNC, working principle & CNC turning ops	✓	
13	27/4/22	Introduction to Drilling Operations and drilling etc	✓	
14	07/5/22	Drilling m/c's general purpose, mass prod & special purpose	✓	
15	06/5/22	Introduction & Types of Boring m/c's, Jig Boring	✓	
16	09/5/22	Introduction to Broaching & its types, Broach terminology	✓	
17	11/5/22	Milling & milling operations	✓	
18	12/5/22	Calculations for machining time in milling	✓	
19	12/5/22	Types of milling m/c's & milling cutters & terminology	✓	
20	13/5/22	Dividing head, Compound & differential Indexing	✓	
21	14/5/22	Gear production & Gear producing m/c's.	✓	
22	17/5/22	Grinding & Grinding m/c's, Bench grinders	✓	
23	18/5/22	surface & centreless grinders & types	✓	
24	15/5/22	Grinding wheels: Bonds & Abrasive modifications.	✓	
25	20/5/22	Study of various parts & ops of shaper, planer & slotted.	✓	
26	21/5/22	Introduction to Unconventional m/c'ing, diff. Mechanical processes.	✓	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Dr. M. V. GUDADHAR Semester: VI Section: A/B/C
 Subject Code: BME04 Subject Name: TOOL ENGG. (Prof. Elective)

A B C

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD	
1	14/2/22	Introduction to Jigs & Fixtures.	<u>MV</u>	<u>MV</u>	
2	15/2/22	Location system and clamping Design	<u>MV</u>		
3	16/2/22	Principles of clamping, Types, Power clamps	<u>MV</u>		
4	21/2/22	Tool Guiding and Tool setting	<u>MV</u>		
5	22/2/22	Types of Drill Jigs & their construction.	<u>MV</u>		
6	23/2/22	Types of Fixtures & Their construction.	<u>MV</u>		
7	28/2/22	students Not available.	<u>MV</u>		
8	1/3/22	Holiday (Mahashivratri)	<u>MV</u>		
9	7/3/22	students Not available.	<u>MV</u>		
10	8/3/22	Design of Jigs - Box, Turnover, & Post jigs.	<u>MV</u>		
11	9/3/22	— 11 —	<u>MV</u>		
12	10/3/22	Design of milling & Broaching fixture	<u>MV</u>		
13	14/3/22	} student's off (for Holy)	<u>MV</u>		
14	15/3/22		— 11 —		<u>MV</u>
15	16/3/22		— 11 —		<u>MV</u>
16	21/3/22	students Not available	<u>MV</u>		
17	22/3/22	Design of Turning, welding & Assembly fix.	<u>MV</u>		
18	23/3/22	ON Leave	<u>MV</u>		
19	24/3/22	Introduction to Press Working - Operations	<u>MV</u>		
20	28/3/22	Presses, Theory of sheet metal cutting.	<u>MV</u>		
21	29/3/22	force calculation, clearance imparting	<u>MV</u>		
22	30/3/22	Methods of cutting force reduction.	<u>MV</u>		
23	31/3/22	Theory of Bending, Spring Back action	<u>MV</u>		
24	4/4/22	Bending types & dies, Drawing operation	<u>MV</u>		
25	5/4/22	Drawing force, holding pressure etc.	<u>MV</u>		
26	6/4/22	stock lay out, Design of Press Tools.	<u>MV</u>		

Approved by
 HOD
 M. V. Gudadhar

Execution Plan

Name of Faculty: Dr. M. V. Gudade Semester VI Section: A/B/C A, B, C
 Subject Code: 6ME04 Subject Name: TOOL Engg. Professional Elective

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	1/4/22	students on common off		
28	12/4/22	————— " —————		
29	13/4/22	————— " —————		
30	18/4/22	Types of Die constructions, cutting dies,		
31	19/4/22	Blanking/Punching Die Design.		
32	20/4/22	Bending & forming Die Design.		
33	21/4/22	students Not available.		
34	25/4/22	Design of compound & combination dies		
35	26/4/22	————— " —————		
36	27/4/22	Progressive and other dies.		
37	28/4/22	Design of Drawing Die.		
38	2/5/22	students Not available		
39	4/5/22	single point cutting tool, & i)		
40	5/5/22	Nomenclature . Design of S.P.C.Tool.		
41	9/5/22	form tools & its types		
42	10/5/22	Design of form tools		
43	11/5/22	multipoint cutting Tools - Drill, Reamers		
44	12/5/22	multipoint cutting Tools - Broach milling cutters.		

M. V. Gudade
 Head of Department
 Mechanical Engineering
 PBI ER 11 & 13, Bhera

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Dr. H. V. Deshmukh Semester IV Section: A/B/C

C

Subject Code: AME 01 Subject Name: Material Science

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/3/2022	Introduction to Process, physical & mechanical metallurgy		 Head of Department Mechanical Engineering P. R. MIT & R. Badnera
2	15/3/2022	Selection of matl. crystal structures & systems, allotropy <i>Polymorphic phases</i>		
3	16/3/2022	Bravais lattices, simple cubic, BCC, FCC HCP structures <i>Atomic Packing factor</i>		
4	21/3/2022	Miller indices for crystallographic planes & dir's		
5	22/3/2022	Solid sol ⁿ , its types Hume Rothery rules, Nucleation & growth		
6	23/3/2022	Solidification of metals in ingot mould Gibbs phase rule		
7	28/3/2022	Cooling curves for pure metals Binary Eutectic & off eutectic alloys		
8	29/3/2022	Phase or Equilibrium diagram steps in plotting phase diagram lever rule		
9	30/3/2022	Microconstituents, phases & critical temperatures on Fe-C diagram		
10	04/4/2022	Peritectic, Eutectic & Eutectoid terms on Fe-C alloy. Cooling of alloys of Fe-C with various compositions		
11	05/4/2022	wright % calculation of microconstituents & phases for various compositions of alloy of Fe & Carbon		
12	06/4/2022	Introduction to composite materials, Types, advantages & applications of composite materials		
13	11/4/2022	Introduction to Heat treatm ^t of steels, Meaning & purpose of heat treatment		
14	12/4/2022	Stress relief annealing, spheroidizing, Process and full annealing		
15	13/4/2022	Normalizing, stages of Hardening process		
16	18/4/2022	Martensite transformation. Retained austenite & subzero treatment Quenching media		
17	19/4/2022	Low, medium & High temperature tempering Introduction to TTT diagram		
18	20/4/2022	Superimposition of continuous cooling curves on S-curve Austempering, iserting, Martempering Pearlite bainite formation		
19	25/4/2022	Purpose of alloying, classification of alloy steel & alloying elements Effect of alloying elem on eutectoid composition		
20	26/4/2022	Effect of alloying elem on Eutectoid temp. & shape of S-curve alloying elements & their effect on properties of steel		
21	27/4/2022	Hadfield Manganese steel, Ball bearing steel HCHC steels		
22	02/5/2022	Stainless steels - Ferritic, martensitic, austenitic S.S. weld decay in S.S. HSS & its heat treatment		
23	04/5/2022	Introduction to cast iron, factors governing carbon content in cast iron. Mott's diagram		
24	09/5/2022	Solidification of ^{grey} white C.I. Constitution of & properties of ^{grey} white C.I.		
25	10/5/2022	Constitution & properties of Gray, nodular and malleable C.I. & their applications		
26	11/5/2022	Types, properties & uses of Brasses & Bronzes		

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan - (S-2022)

Name of Faculty: Dr. C. R. Patil Semester VI Section: A/B/C

Subject Code: 6ME02 Subject Name: Dynamics of Machine

A

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	7/2/2022	(online lecture) Theory of Lubrication	(Call)	
2	8/2/2022	Types, properties of oil	(Call)	
3	9/2/2022	Mechanism of Lubrication	(Call)	
4	10/2/21	Hydrostatic, Hydrodynamic, thick thin film	(Call)	
5	14/2	(offline lect) What is SFA & 3D Analysis	(Call)	
6	15/2	Superposition thm. equilibrium criteria	(Call)	
7	16/2	(Tutorial) Steps of SFA	(Call)	
8	17/2	problems of SFA	(Call)	
9	22/2	Types of SFA	(Call)	
10	23/2	What is flywheel, function of flywheel	(Call)	
11	24/2	T-θ diagram of 2 stroke, 4 stroke engine	(Call)	
12	25/2	Multicylinder	(Call)	
13	2/3/2022	Max. fruct of energy	(Call)	
14	4/3/2022	(Tu) problems of otto cycle flywheel	(Call)	
15	7/3	punching mix	(Call)	
16	8/3		(Call)	
17	9/3	D.F.A - problems	(Call)	
C. Test - I		14/03/2022, 15/03/2022 & 16/03/2022 → TEST I schedule		
		21/03/2022 → C.L		
18	22/3/2022	(Tu) Study of vehicle dynamics	(Call)	
19	23/3/	Various resistance in vehicles	(Call)	
20	25/3/	Power demand in vehicles	(Call)	
21	28/3/	problems of Vehicle dynamics	(Call)	
22	29/03		(Call)	
23	30/3/	Gyroscope & its couple	(Call)	
24	1/4/2022	(Tu) effect in aeroplane	(Call)	

Unit-I

Unit-II

Unit-III

Contd

Head Mechanical Engg Dept Prof. Ram Meghe Institute of Technology & Research, Badnera

Execution Plan

(S-2022)

Name of Faculty: C. R. Patil Semester VI Section: A/B/C A

Subject Code: 6M09 Subject Name: Dynamics of Machine

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
25	19/4 (Tu)	Gyroscope effect in ship & 2 wheeler	Patil	
26	19/4 Extra	in 4 wheeler	Patil	
27	19/4 Extra	problems of Gyroscope	Patil	
28	20/4	Gyroscope	Patil	
29	20/4 Extra		Patil	
30	22/4	longitudinal vibration	Patil	
31	22/4 Extra	problems of longitudinal	Patil	
32	25/4		Patil	
33	26/4 (Tu)	transverse of vibration	Patil	
34	27/4	problems of transverse/translational	Patil	
35	29/4	translational vibr.	Patil	
36	29/4 Extra	problems of	Patil	
37	4/5/2022		Patil	
38	9/5	Balancing static & dynamics	Patil	
39	10/5	problem of dynamic balancing	Patil	
40	10/5	Swaying couple, hammer blow, track effect problem	Patil	
41	12/5	C.T. II	Patil	

02/02

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD	
1	7/2/2022 (online lecture)	Theory of Lubrication	<u>Patil</u>		
2	8/2/2022 T	types, properties of T	<u>Patil</u>		
3	9/2/2022 T	Mechanism of Lubrication	<u>Patil</u>		
4	10/2/21 T	Hydrostatic, Hydrodynamic, thick thin films	<u>Patil</u>		
5	14/2 (off line lect.)	what is SFA & DF analysis	<u>Patil</u>		
6	15/2 T	superposition thin, equilibrium curves	<u>Patil</u>		
7	16/2 (Tutorial)	Steps of SFA	<u>Patil</u>		
8	17/2	problems of SFA	<u>Patil</u>		
9	22/2	T SFA	<u>Patil</u>		
10	23/2	what is flywheel, ? function of flywheel	<u>Patil</u>		
11	24/2	T-θ diagram of 2 stroke, 4 stroke, engine	<u>Patil</u>		
12	25/2	T ————— multicylinder	<u>Patil</u>		
13	2/3/2022 T	— & max fact of energy	<u>Patil</u>		
14	4/3/2022 (Tu)	problems of otto cycle flywheel	<u>Patil</u>		
15	7/3	T ————— punchy mk T	<u>Patil</u>		
16	8/3	T ————— T	<u>Patil</u>		
17	9/3	D.F.A — problems	<u>Patil</u>		
Test - I		14/03/2022, 15/03/2022 & 16/03/2022 → Test I schedule			
		21/03/2022 → <u>CL</u>			
18	22/3/ (Tu)	Study of vehicle dynamics	<u>Patil</u>		
19	23/3/	Various resistance in vehicles	<u>Patil</u>		
20	25/3/	Power demand in vehicles	<u>Patil</u>		
21	28/3/	problems of Vehicle dynamics	<u>Patil</u>		
22	29/03	T ————— T	<u>Patil</u>		
23	30/3/	Gyroscope & its couple	<u>Patil</u>		
24	1/4/2022 (Tu)	T ————— effect in Aeroplane	<u>Patil</u>		

Unit - I

Unit - II

Test - I

Unit - III

Patil

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: S. G. Deshmukh


Semester: IV

Section: A/B/C

C

Subject Code: 4ME03

Subject Name: Manufacturing Techniques
Manufacturing

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	22/03/21	Introduction, methods of metal cutting, chip formation		 HOD Dept. of Mechanical Engg. P.R.M.I.T. & R. Badnera
2	23/03	Types of Chips & Tool mat.		
3	24/03	Cutting forces & Chip thickness ratio		
4	29/03	machinability, cutting fluids		
5	30/03	Tool life & Tool wears		
6	05/04	Introduction to Lathe, Types		
7	06/04	Parts of Lathe		
8	19/04	Speed changing & Back gear arrangement		
9	20/04	All gear drive, Half nut mechanisms		
10	21/04	Taper turning attachments		
11	26/04	Capstan & Turret Lathe, Compensator		
12	28/04	Indexing & Work feeding mechanisms		
13	04/05	Types, specifications & parts of drilling		
14	05/05	Types of drilling mils & parts		
15	10/05	Types of Boring mils		
16	11/05	operations on Boring & drilling mils		
17	12/05	Reaming & Broaching.		
18	17/05	Grinding, Introduction & Types		
19	18/05	Types of grinding mils		
20	27/05	Bonds & abrasives, Loading, dressing & dressing		
21	28/05	Milling & its Types		
22	03/06	Types of milling cutters		
23	06/06	shaper & planer		

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

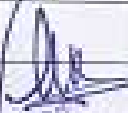
(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: V. D. Torge Semester VIII Section: A/B/C

Subject Code: BME03 Subject Name: IC Engines



Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	1/2/22	Basic of IC Engines	<u>V.D. Torge</u>	 HOD Department of Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	2/2/22	Details of 2 stroke & 4 stroke engines	<u>V.D. Torge</u>	
3	8/2/22	Air standard cycles	<u>V.D. Torge</u>	
4	9/2/22	Fuel Air cycles	<u>V.D. Torge</u>	
5	11/2/22	Variation in specific heat & its application	<u>V.D. Torge</u>	
6	15/2/22	Review of losses	<u>V.D. Torge</u>	
7	15/2/22	Numericals	<u>V.D. Torge</u>	
8	16/2/22	Numericals	<u>V.D. Torge</u>	
9	18/2/22	Conventional fuel for IC engines	<u>V.D. Torge</u>	
10	22/2/22	Requirement, fuel Additive	<u>V.D. Torge</u>	
11	23/2/22	Various Alternative fuels	<u>V.D. Torge</u>	
12	25/2/22	Fuel Injection System	<u>V.D. Torge</u>	
13	4/3/22	Fuel pump & its working	<u>V.D. Torge</u>	
14	8/3/22	Fuel feed system	<u>V.D. Torge</u>	
15	9/3/22	Study of injectors & nozzles	<u>V.D. Torge</u>	
16	11/3/22	Basch type fuel pump.	<u>V.D. Torge</u>	
17	15/3/22	Combustion in SI engines	<u>V.D. Torge</u>	
18	16/3/22	Stages of Combustion	<u>V.D. Torge</u>	
19	22/3/22	Factor influencing various stages	<u>V.D. Torge</u>	
20	23/3/22	Types of Combustion, Detonation	<u>V.D. Torge</u>	
21	25/3/22	Rating of fuel	<u>V.D. Torge</u>	
22	25/3/22	Types of Combustion Chambers	<u>V.D. Torge</u>	
23	29/3/22	Combustion in CI engines	<u>V.D. Torge</u>	
24	30/3/22	Stages of combustion in CI engines	<u>V.D. Torge</u>	
25	1/4/22	Delay Period & factors affecting it.	<u>V.D. Torge</u>	
26	5/4/22	Diesel Knock, Cetane Rating	<u>V.D. Torge</u>	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Dr. Shashank B. Thakre

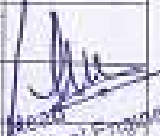
Semester

Section: A/B/C

A

Subject Code: AMEC3

Subject Name: Energy Conversion-I

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	1/2/22	Rankine cycle.	h	 Head Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	3/2	Intro. Power plant layout.	h	
3	4/2	problems	h	
4	7/2	problems.	h	
5	8/2	problems.	h	
6	10/2	Low Press. Boilers.	h	
7	11/2	High pressure Boilers.	h	
8	14/2	Desi. chimney draught & height	h	
9	15/2	problems	h	
10	17/2	problems.	h	
11	18/2	Equivalent evaporation concept	h	
12	21/2	Boiler mounting & Accessories	h	
13	22/2	problems	h	
14	24/2	problems	h	
15	25/2	problems.	h	
16	3/3	problems	h	
17	4/3	Intro. to Condensers.	h	
18	7/3	low level Jet Condenser	h	
19	8/3	High level surface Condenser.	h	
20	10/3	Dalton's law of partial pressure	h	
21	11/3	Distillation for water reqd.	h	
22	15/3	problem.	h	
23	2/3	Nozzle Introduction	h	
24	22/3	Problem	h	
25	24/3	Problems.	h	
26	25/3	Intro. to Turbines.	h	


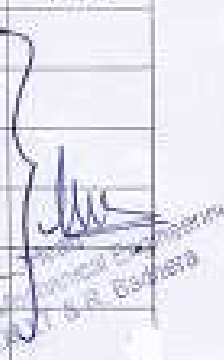
Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Dr. Shashank Thakre Semester: IV Section: A/B/C

A

Subject Code: 4ME03 Subject Name: EC-I

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	1/4/22	Simple & Reaction Turbines -		
28	4/4/22	problems		
29	7/4/22	problems.		
30	2/4/22	problem -		
31	22/4/22	compounding & governing.		

Dr. Shashank Thakre
 Head of Department
 P.E.C. S. P. S. G. S.

Prof. Ram Meghe Institute of Technology & Research, Badnera

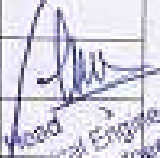
Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Saurabh S Bhanje Semester IX Section: A/B/C
 Subject Code: _____ Subject Name: Material Science

A

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	15/3/22	Introduction to Metallurgy	(Signature)	 Head Department of Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	16/3/22	Classification of Materials	(Signature)	
3	20/3/22	Structure of metals, Form of alloy	(Signature)	
4	22/3/22	Solid solution, Leve rule	(Signature)	
5	28/3/22	Solidification of pure metal	(Signature)	
6	29/3/22	Intro to binary eqwi. diag	(Signature)	
7	29/3/22	Study of Fe-C diagram	(Signature)	
8	30/3/22	Study of Fe-C diagram	(Signature)	
9	30/3/22	Critical temperatures Microstructure	(Signature)	
10	5/4/22	Estimation of Carbon content	(Signature)	
11	5/4/22	Composite material	(Signature)	
12	6/4/22	Alloy Steels & its purpose	(Signature)	
13	6/4/22	Class of alloying material	(Signature)	
14	12/4/22	Effect of alloying elements	(Signature)	
15	25/4/22	OHNS steels, HSS Steel	(Signature)	
16	26/4/22	Heat treatment	(Signature)	
17	26/4/22	Stainless Steel types	(Signature)	
18	26/4/22	Annealing, Normalizing, Tempering	(Signature)	
19	27/4/22	S-Curve & its superimposition	(Signature)	
20	4/5/22	Bainite & martensite transformation	(Signature)	
21	7/5/22	Quenching media Austempering	(Signature)	
22	3/5/22	Martempering & patenting	(Signature)	
23	10/5/22	Retained Austenite Hardenability	(Signature)	
24	10/5/22	Types of CI	(Signature)	
25	11/5/22	Meesers diagram, Malleability	(Signature)	
26	12/5/22	Solidification of CI	(Signature)	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: H. D. Patil


Semester 8th

Section: A/B/C

A

Subject Code: _____

Subject Name: Automobile Engg

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	7/2	<u>I] Classification of Automobile</u>	hp	
2	8/2	<u>chassis types, Power Unit functions</u>	hp	
3	14/2	<u>locations power for propulsion, engine mounting</u>	hp	
4	15/2	<u>engine parts - types, construction & functions</u>	hp	
5	16/2	<u>Multiple cylinder engines</u>	hp	
6	21/2	<u>firing order</u>	hp	
7	22/2	<u>II] fuel feed system, fuel Pump</u>	hp	
8	4/3	<u>fuel filter</u>	hp	
9	7/3	<u>M PFI & CRDI</u>	hp	
10	11/3	<u>Cooling System & its types</u>	hp	
11	21/3	<u>Water Pump & Radiators</u>	hp	
12	22/3	<u>Temp. Indicators</u>	hp	
13	25/3	<u>Antifreeze mixtures</u>	hp	
14	28/3	<u>III] Electrical system</u>	hp	
15	1/4	<u>Battery Capacity & ratings</u>	hp	
16	4/4	<u>Bendix Drive</u>	hp	
17	5/4	<u>overrunning clutch drive</u>	hp	
18	8/4	<u>Battery Coil Ignition system</u>	hp	
19	11/4	<u>Electronic ignition system</u>	hp	
20	12/4	<u>IV] Transmission system layout</u>	hp	
21	18/4	<u>Types of clutch</u>	hp	
22	19/4	<u>Sliding Mesh Gearbox</u>	hp	
23	23/4	<u>Constant Mesh Gearbox</u>	hp	
24	25/4	<u>Differential</u>	hp	
25	26/4	<u>Torque tube drive</u>	hp	
26	27/4	<u>Hotchkins drive</u>	hp	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)


Execution Plan

Name of Faculty: T. K. Gawande Semester VI

Section: A/B/C

B

Subject Code: CME01 Subject Name: DME

Sr. No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/02/22	Introduction to Design	h	 Head of Department Department of Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	15/02/22	Stress in elastic design	h	
3	16/02/22	Riveted joint theory	h	
4	18/2/22	Design procedure & numericals on RT	h	
5	18/2/22	Introduction to welded joints	h	
6	21/2/22	Design procedure of welded joint	h	
7	23/2/22	Numericals on welded joints	h	
8	24/2	Introduction to Hooks & clamp	h	
9	25/2	Numericals on Hooks & c. clamp	h	
10	02/03	Introduction to knuckle joint	h	
11	02/03	Design procedure of knuckle joint	h	
12	04/03	Numericals on knuckle joint	h	
13	08/03	Introduction to springs	h	
14	09/03	Design procedure of spiral torsion spring	h	
15	21/3	Numericals of on springs	h	
16	22/3	Introduction to power screw	h	
17	28/3	Design concept & procedure of PS	h	
18	28/3	Numericals on power screw	h	
19	28/3	Introduction to shaft	h	
20	04/04	Design procedure of shaft	h	
21	05/04	Numericals on shaft	h	
22	06/04	Numericals on shaft	h	
23	18/04	Introduction to couplings	h	
24	19/04	Design of rigid couplings	h	
25	20/04	Design of flexible coupling	h	
26	25/04	Numericals on couplings	h	

Execution Plan

Name of Faculty:- T. K. Lawande Semester VI Section: A/B/C

B

Subject Code: EMEQ1 Subject Name: DME

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	21/04/22	Numericals on couplings	K	
28	24/4/22	Introd. to bearings	K	
29	27/4/22	Design procedure for Journal bearings	K	
30	04/05/22	Numericals on journal bearings	K	
31	09/5/22	Selection procedure for Anti friction bearings	K	
32	10/05/22	Numericals on anti friction bearings	K	
33	11/05/22	— 11 —	K	
34	16/5/22	Introd. to Design of IC engine parts	K	
35	17/5/22	Design procedure of connecting rod	K	
36	18/5/22	Design of flywheel	K	

[Signature]
 Head of Department
 Mechanical Engineering
 P. N. T. College
 Warananagar

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

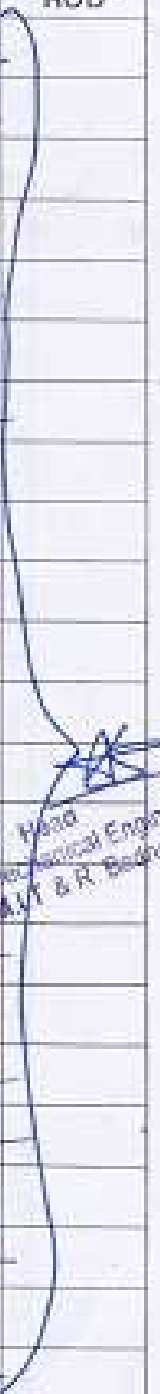
Name of Faculty: Dr. A. D. Shirvate Semester 4th

Section: A/B/C

B

Subject Code: 4MEOS

Subject Name: Hydraulic & Pneumatic Systems

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	15/3/22	Basics of fluid	AS	 Head Technical Engineer PRMIT & R. Badnera
2	23/3/22	properties of fluid, Branches FM	AS	
3	24/3/22	Introduction to turbines	AS	
Extra 4	29/3/22	schematic of hydro electric power plant	AS	
5	31/3/22	Losses & heads in turbine	AS	
Extra 6	4/4/22	Turbine classification, Intro to pelton turbine	AS	
7	6/4/22	pelton wheel parts, velocity triangle diagram	AS	
8	7/4/22	Numerical on pelton wheel	AS	
9	8/4/22	————— " —————	AS	
10	11/4/22	Introduction to Reaction turbine	AS	
11	20/4/22	Numericals on ——— " ———	AS	
12	22/4/22	Francis turbine & Numerical.	AS	
13	25/4/22	Centrifugal pump & its working	AS	
14	28/4/22	parts & classification of C.P.	AS	
15	29/4/22	min speed of C.P.	AS	
16	4/5/22	Multistage C.P.	AS	
17	6/5/22	min/max speed, cavitation H.P./H	AS	
18	11/5/22	Numerical.	AS	
19	13/5/22	Ram pump, Axial flow pump, CFD	AS	
20	19/5/22	Reciprocating pump.	AS	
21	26/5/22	Indicators diagrams & numerical.	AS	
22	23/5/22	min speed of R.P.	AS	
23	24/5/22	hydraulic crane, lift, torque converter	AS	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering


(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Prof. S. A. Gelam Semester 8th Section: A/B/C

A.B.C

Subject Code: _____ Subject Name: Robotics

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14/2	[I] Introduction, Automation & RBT	✓	 Head of Department Department of Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	15/2	App'd, Robot anatomy & Conf'	✓	
3	18/2	Joint type in RBT	✓	
4	21/2	Robot Wrist, Joint Notation	✓	
5	22/2	Robot work volume	✓	
6	24/2	Robot specification.	✓	
7	28/2	[II] Classification of End Effector	✓	
8	02/3	Mechanical Gripper.	✓	
9	03/3	hooking & lifting Gripper	✓	
10	07/3	Plastic, vacuum cup, Electro	✓	
11	08/3	Internal & External Gripper	✓	
12	010/3	Design consideration in Gripper.	✓	
13	21/3	[III] Pneumatic power drives	✓	
14	22/3	Hydraulic system.	✓	
15	24/3	Electric drives.	✓	
16	28/3	Robot control system	✓	
17	29/3	Servo & Non Servo system	✓	
18	31/3	Robot control & Programming method	✓	
19	4/4	[IV] Sensors Features	✓	
20	5/4	Contact type sensors	✓	
21	7/4	Wrist force sensors.	✓	
22	11/4	Binary & Analog sensors	✓	
23	14/4	Artificial skin, force	✓	
24	18/4	torque, encoders.	✓	
25	19/4	[V] forward & Reverse	✓	
26	22/4	kinematics.	✓	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

{Odd/Even Semester 2021-22}

Execution Plan

Name of Faculty: A. W. Awate


Semester VIII

Section: (A)/B/C

A

Subject Code: 85ME4

Subject Name: ORT

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	10-2-22	Introduction, OR Models, Formulation Problem	*	 Head Dept. of Mechanical Engineering P.R.M.I.T.R. Badnera
2	14-2-22	Formulation of LPP	*	
3	15-2-22	Graphical Method Maximization Cases	*	
4	16-2-22	Graphical Method Minimization Case	*	
5	21-2-22	Dual of LPP	*	
6	22-2-22	*2 Simplex method	*	
7	23-2-22	Applications of LPP	*	
8	25-2-22	Transportation Algorithm	*	
9	2-3-22	Tr. methods of Initial soln	*	
10	2-3-22	Tr. methods of Critical soln	*	
11	2-3-22	MODI method	*	
12	7-3-22	Degeneracy in Tr. Problems	*	
13	9-3-22	Unbalanced Tr. Problems	*	
14	9-3-22	Assignment Model	*	
15	9-3-22	Hungarian Method	*	
16	21-3-22	Diff. cases of Assignment Prob.	*	
17	21-3-22	Introduction to PERT/CPM	*	
18	21-3-22	Diff. bet ⁿ PERT/CPM	*	
19	24-3-22	Network Diagram	*	
20	24-3-22	Forward/Backward Pass method	*	
21	28-3-22	Floats, Problems on Floats	*	
22	28-3-22	Critical path method	*	
23	30-3-22	3 Time Estimation Prob.	*	
24	30-3-22	Project Crashing Prob.	*	
25	31-3-22	Sequencing Model	*	



Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: S.S. Korghe

Semester VIIth Section: (A/B/C)

Subject Code: GME02

Subject Name: DAM

C

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
01	01/03/22	Unit I - Static equilibrium & superposition	☑	 Head of Mechanical Engineering Prof. Ram Meghe Prof. R. Badnera
02	02/03/22	virtual work method.	☑	
03	03/03/22	Numerical on static force analysis.	☑	
04	03/03/22	Numerical on static force	☑	
05	03/03/22	analysis.	☑	
06	07/03/22	Introduction to hydrodynamics	☑	
07	08/03/22	boundary lubrication film	☑	
08	08/03/22	Lubrication Rolling friction.	☑	
09	10/03/22	Unit II Introduction to D'Alembert's principle	☑	
10	21/03/22	Introduction to inertia of connected	☑	
11	21/03/22	and T-Q diagram of 4 stroke	☑	
12	22/03/22	engine, 2-stroke engine	☑	
13	22/03/22	Problems on flywheel.	☑	
14	24/03/22	Unit III Introduction to Gyro scope	☑	
15	24/03/22	Effects of Gyro scope on 2 wheels	☑	
16	28/03/22	Effects of Gyro scope on 2 wheels	☑	
17	28/03/22	4 wheels of horizontal turret	☑	
18	29/03/22	Gyroscopic Couple problem	☑	
19	29/03/22	Vehicle dynamics balancing	☑	
20	30/03/22	of vehicle	☑	
21	04/04/22	Unit IV Introduction to vibration	☑	
22	04/04/22	Terms of vibratory motion	☑	
23	05/04/22	Introduction to longitudinal	☑	
24	05/04/22	vibration Natural frequency	☑	
25	06/04/22	longitudinal vibratory problem	☑	
26	06/04/22	base on it.	☑	

Odd/Even Semester 2021-22]

Execution Plan

Name of Faculty: S.S. Langre

Semester: VIIth

Section: AV/C

C

Subject Code: ME02

Subject Name: DOM

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	18/04/22	Single rotor system, two rotor	[Signature]	
28	18/4/22	system, three rotor system	[Signature]	
29	21/04/22	Unit V Introduction to transverse	[Signature]	
30	21/04/22	vibration Natural frequency of	[Signature]	
31	25/04/22	transverse vibration	[Signature]	
32	25/04/22	Numerical on transverse vibration	[Signature]	
33	26/04/22	Dunkerley's method & numerical	[Signature]	
34	26/04/22	Whirling speed of shaft numerical	[Signature]	
35	27/04/22	Unit VI Balancing of machines	[Signature]	
36	27/04/22	Balancing of rotating masses	[Signature]	
37	09/05/22	& static & dynamics Balancing of	[Signature]	
38	09/5/22	single cylinders Balancing of	[Signature]	
39	09/5/22	linkages Balancing problems	[Signature]	
40	10/5/22	Numerical on Balancing	[Signature]	

[Signature]
 Head of Institute
 T. R. Sharma

Prof. Ram Meghe Institute of Technology & Research, Badnera


Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty:- S. P. PATIL Semester IV Section: A/B/C

Subject Code: _____ Subject Name: M. Sc.

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14-03	Intro. Phy. Metall. Metall., classifi ⁿ of Metall.	\$	 Head of Department Mechanical Engineering Prof. I. & R. Badnera
2	15	Solid Sol ⁿ , Lever rule for phase Metall.	\$	
3	16	Solidifn of pure metal nucleat ⁿ & growth, dendritic solidifn	\$	
4	21	study of binary eutectic. Iron carbon eutectic. dia.	\$	
5	22	Critical temp, microstructure of steady cooled steel	\$	
6	23	Intro to composite matt., advats, app ⁿ	\$	
7	28	Alloys steel, purpose classifi ⁿ , effect on eutectoid composit	\$	
8	29	Eutectoid temp, S curve, properties of steel	\$	
9	30	High Speed steel, H.S., Heat treatm ⁿ etc. Weld defects	\$	
10	04-04	Murray's dia, concn of carbon in CI, Metallurgical composition of white, grey	\$	
11	05	Alloys Cast I, Al Metal & alloys, Brasses & bronzes	\$	
12	06	Al, lead, tin, zinc, appl ⁿ , bearing metals	\$	
13	12	Principles of HT, annealing, Normalizing	\$	
14	18	Tempering, S curve, Pearlite, bainite & Martensite	\$	
15	19	Quenching media, Austempering	\$	
16	20	Martempering & patenting, Hardenability	\$	
17	05	Powder Metall, concept, Method of Manuf. of metal powder	\$	
18	26	Comparison of process, single dia, double die, die casting	\$	
19	9	Process bearing of cemented carbide tip	\$	
20	10	Surface hardening, carburizing, Mech working, Induct ⁿ hardening, laser hardening	\$	
21	11	Strain hardening, Recrystall ⁿ , Deformation Mech. Mech. working process.	\$	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Prof. P.V. Gedom Semester VIIth Section: A/B/C A
 Subject Code: EME05 Subject Name: Automobile Engg [Open Elective]

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	11-2-22	Introduction about automobile	[Signature]	[Signature]
2	17-2-22	Classification of automobile.		
3	18-2-22	Chassis type & basic parts		
4	18-2-22	Engine parts & firing order.		
5	24-2-22	CI & SI Engine		
6	25-2-22	2 Stroke & 4 Stroke Engine		
7	25-2-22	Comparison & details about ↑		
8	3-3-22	Fuel feed system	[Signature]	[Signature]
9	3-3-22	Fuel filter & air filter.		
10	04-3-22	MPFI & CRDI System		
11	04-3-22	Control system & its types.		
12	10-3-22	Types of Cooling system		
13	10-3-22	Water pump & Radiator.		
14	11-3-22	Anti freeze mixture.		
15	11-3-22	Electrical system & its parts		
16	17-3-22	Battery, Battery Capacity.		
17	17-3-22	Battery Rating		
18	24-3-22	Starter motor driver.		
19	24-3-22	Bondix drive, solenoid switch		
20	25-3-22	Ignition system - types.		
21	25-3-22	Battery Ignition system		
22	31-3-22	Transmission system & definition		
23	1-4-22	Clutch & its types of clutch.		

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: A. S. Sakhare Semester VIII Section: A/B/C

Subject Code: _____ Subject Name: Automobile Engg.


B

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	3-3-22	Guidance regarding career	AS	
2	4-3	UNIT-I Introduction of Automobile	AS	
3	8-3	Classification of Automobile	AS	
4	10-3	Types of Chassis Layout	AS	
5	11-3	Types of engine	AS	
6	15-3	Firing order	AS	
7	22-3	Engine & its function	AS	
8	24-3	Hill climbing	AS	
9	25-3	UNIT-II Fuel feed system	AS	
10	29-3	Types of fuel pump	AS	
11	29-3	Fuel filters & Air filters	AS	
12	31-3	M P F I	AS	
13	6-4	C R D I	AS	
14	7-4	Types of cooling system	AS	
15	8-4	Cooling system	AS	
16	19-4	UNIT-III Clutch system	AS	
17	21-4	Clutches	AS	
18	22-4	Gear Box system	AS	
19	26-4	Differential Gear working	AS	
20	26-4	Hotchkiss drive	AS	
21	28-4	Torque tube drive	AS	
22	04-5	cone clutch	AS	
23	4-5	Unit IV Braking system	AS	
24	5-5	mechanical & Hydraulic Brake	AS	
25	5-5	steering system	AS	
26	6-5	Types of S.S.	AS	

AS
 Asst. Professor
 Mechanical Engg.
 P.M.E.R.I.T. & R. Badnera

Name of Faculty:- Dr. R.A. Kubde Semester VIIth Section: A/B/C
 Subject Code: GMEO2 Subject Name: Dynamics of machines

B

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	14.2.2022	static force analysis, Introduction (without friction)	Ⓟ	 Head of Department Mechanical Engineering P. V. P. T. & R. Badnera
2	15.2.2022	-II- force Body Diff.	Ⓟ	
3	16.2.2022	force convention, numerical	Ⓟ	
4	17.2.2022	numericals, four-force members	Ⓟ	
5	21.2.2022	numericals	Ⓟ	
6	22.2.22	-II-	Ⓟ	
7	23.2.22	static force Analysis (with friction)	Ⓟ	
8	24.2.22	-II- -II-	Ⓟ	
9	2.3.22	Lubrication	Ⓟ	
10	3.3.22	Dynamic force analysis D'Alemberts princ	Ⓟ	
11	4.3.22	vel. & accel ⁿ of piston & connecting rod	Ⓟ	
12	7.3.22	thrust along CR, side of cylinder	Ⓟ	
13	9.3.22	crank effort, turning moment dia.	Ⓟ	
14	10.3.22	for 2-stroke, 4-stroke & multi cylinder	Ⓟ	
15	11.3.22	dynamic equivalent system of CR	Ⓟ	
16	21.3.22	flywheel, numericals	Ⓟ	
17	23.3.22	Gyroscope, introduction	Ⓟ	
18	24.3.22	Gyroscopic effect on ship, aeroplane	Ⓟ	
19	25.3.22	four wheelers, two wheelers	Ⓟ	
20	28.3.22	numericals	Ⓟ	
21	30.3.22	vehicle dynamics - introduction	Ⓟ	
22	31.3.22	Numericals	Ⓟ	
23	1.4.22	Balancing - Introduction	Ⓟ	
24	4.4.22	balancing of masses in same plane	Ⓟ	
25	6.4.22	-II-	Ⓟ	
26	7.4.22	balancing of masses in different planes	Ⓟ	
27	8.4.22	-II-	Ⓟ	
28	18.4.22	Numericals	Ⓟ	

Execution Plan


Name of Faculty: Dr. M.P. Nawathe Semester VI

Section: A/B/C

Subject Code: 6ME03

Subject Name: Control Systems Engg

A

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	16/2/22	Intro. of control system Engg	CM	 HOD Dept. of Mechanical Engineering P.R. MIT, S.R. Balmurthy
2	17/2/22	open loop & closed loop system	CM	
3	18/2/22	Types of control system Engg	CM	
4	22/2/22	Transfer function	CM	
5	23/2/22	Block Dia. method	CM	
6	24/2/22	Rules of Block Dia. method	CM	
7	25/2/22	prob. on Block Dia.	CM	
8	4/3/22	prob. on Block Dia.	CM	
9	7/3/22	Signal flow Graphs (SFG)	CM	
10	8/3/22	prob. on SFG	CM	
11	11/3/22	Types of controller	CM	
12	21/3/22	PROP. controller	CM	
13	23/3/22	Derivative controller	CM	
14	25/3/22	Integral controller	CM	
15	28/3/22	Time response analysis	CM	
16	29/3/22	Time response specifications	CM	
17	29/3/22	prob. on time response	CM	
18	1/4/22	prob. on time response	CM	
19	4/4/22	Root Locus	CM	
20	5/4/22	prob. on Root Locus	CM	
21	5/4/22	Stability of control system	CM	
22	8/4/22	prob. on stability	CM	
23	11/4/22	prob. on Root Locus	CM	
24	18/4/22	prob. on Root Locus	CM	
25	19/4/22	Root Locus Array method	CM	
26	25/4/22	Root Locus prob.	CM	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: R. R. Kulkarni Semester 6th Section: A/B/C

Subject Code: _____ Subject Name: Control System Engg. (CSE)

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	2/3/22	Intro & open loop closed loop	<u>[Signature]</u>	<u>[Signature]</u> Department of Mechanical Engineering Prof. R. Meghe Badnera
2	7/3/22	Types of control system	<u>[Signature]</u>	
3	8/3/22	Transfer function	<u>[Signature]</u>	
4	9/3/22	Block diagram red ⁿ	<u>[Signature]</u>	
5	21/3/22	rules for red ⁿ of Block diag	<u>[Signature]</u>	
6	22/3/22	Problems on — —	<u>[Signature]</u>	
7	23/3/22	Problems on — —	<u>[Signature]</u>	
8	24/3/22	signal flow graphs	<u>[Signature]</u>	
9	29/3/22	Problem on SFG	<u>[Signature]</u>	
10	30/3/22	Types of controller	<u>[Signature]</u>	
11	4/4/22	Derivative controller	<u>[Signature]</u>	
12	5/4/22	Integral controller	<u>[Signature]</u>	
13	6/4/22	Time response analysis	<u>[Signature]</u>	
14	18/4/22	Time response cont.	<u>[Signature]</u>	
15	19/4/22	Problems on TRA	<u>[Signature]</u>	
16	20/4/22	Root locus	<u>[Signature]</u>	
17	25/4/22	Problems on Root locus	<u>[Signature]</u>	
18	26/4/22	Problems on Root locus	<u>[Signature]</u>	
19	27/4/22	Stability of control system	<u>[Signature]</u>	
20	4/5/22	Problems on stability	<u>[Signature]</u>	
21	9/5/22	Problems on stability	<u>[Signature]</u>	
22	10/5/22	Problem on root locus	<u>[Signature]</u>	
23	11/5/22	Problem on root locus	<u>[Signature]</u>	
24	11/5/22	Problem contd.	<u>[Signature]</u>	
25	17/5/22	Intro to bode Plot	<u>[Signature]</u>	
26	18/5/22	GM, PM	<u>[Signature]</u>	

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
27	18/5/22	Problem on Bode plot	[Signature]	[Signature]
28	23/5/22	Problem on bode plot	[Signature]	[Signature]

Dept. of Electrical Engineering
P.A.M.T & R. Bhatnagar

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: A. P. Thakur Semester 2021 Section: A/B/C
 Subject Code: 822E01 Subject Name: Automobile Engineering

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	11/2/22	classificat ⁿ of A.C.	IA	
2	2/2/22	chassis type, power unit funct ⁿ .	IA	
3	8/2/22	locations power for propulsion & engine modulation	IA	
4	9/2/22	engine parts type, construction & funct ⁿ .	IA	
5	11/2/22	Multi-cylinder engine.	IA	
6	15/2/22	engine balancing.	IA	
7	16/2/22	Firing order.	IA	
8	18/2/22	Fuel feed systems for SI & CI.	IA	
9	22/2/22	Fuel pumps, fuel filters, Air filter.	IA	
10	25/2/22	MPEI & CRDI	IA	
11	25/2/22	Common Rail Diesel Injection, controlling	IA	
12	4/3/22	cooling system.	IA	
13	8/3/22	water pump & radiator.	IA	
14	9/3/22	Antifreeze mixture.	IA	
15	11/3/22	trouble & remedies.	IA	
16	14/3/22	Electrical systems.	IA	
17	16/3/22	Standard Battery rating.	IA	
18	22/3/22	Bandix - drive.	IA	
19	23/3/22	over running clutch.	IA	
20	25/3/22	Solenoid switch & shift.	IA	
21	29/3/22	Battery coil ignition system.	IA	
22	30/3/22	Ignition timing & its effects.	IA	
23	1/4/22	Electronic ignition system.	IA	
24	5/4/22	Transmission system.	IA	
25	6/4/22	Single plate & multiplate clutch.	IA	
26	6/4/22	clutch trouble & remedies.	IA	


 Dept. of Mechanical Engineering
 P.R.M.I.T. & R. Badnera

Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: A. P. Thakur Semester VIII Section: A/B/C
 Subject Code: AM1501 Subject Name: Automobile Eng.

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HDD
27	12/4/22	Gear Boxes .	R	
28	13/4/22	Sliding , constant mesh gear box	R	
29	13/4/22	Overdrive - trouble shooting	R	
30	19/4/22	torque converter . Automatic _{trans.}	R	
31	20/4/22	propeller shaft & drives.	R	
32	21/4/22	Braking systems.	R	
33	26/4/22	power & vacuum brakes.	R	
34	27/4/22	Steering system-	R	
35	29/4/22.	Steering Gears	R	
36	4/5/22	toe-in , toe-out , wheel align , caster , caster , dog - bite .	R	
37	6/5/22	Suspension systems	R	
38.	6/5/22	Types of lubrication	R	
39	10/5/22	dry sump system , full sump.	R	
40	11/5/22	oil filters , by pass system.	R	
41	13/5/22	crankcase ventilat. trouble & _{remedy}	R	

[Signature]
 Principal
 Department of Mechanical Engineering
 P. T. S. V. V. S. Institute of Technology
 Varanasi

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering



(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: Anurag S. Patil Semester VIIIth Section: A/B/C

Subject Code: 8ME62 Subject Name: Refrigeration and Air-conditioning

B&C

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	1-02-22	Basic of Refrigeration & Introduction to VCR System		
2	02-02-22	Analysis of Simple VCR, Use of p-h & T-s charts		
3	04-02-22	Effect of ↑ Pev, Superheating & Subcoolings		
4	07-02-22	Actual VCR and VAR System.		
5	08-2-22	Refrigerant Classification, primary and Secondary refrigerant		
6	10-2-22	Merits and demerits of commonly used refrigerant such as ammonia, R12, R22 and their selection		
7	14-2-22	Numericals		
8	15-2-22	Numericals		
9	15-2-22	Introduction to Multistage pressure system		
10	17-2-22	Multistage compn, choice of Intermediate pres		
11	17-2-22	Complete multistage pressure system		
12	21-2-22	Multi evaporator system		
13	24-2-22	Single Compn in vertical & multistage systems		
14	24-2-22	Cascade system & its application for cryogenics		
15	26-2-22	AV liquefaction process - Jule Thompson		
16	26-2-22	Numericals.		
17	28-2-22	Numericals		
18	2-3-22	Introduction to refrigeration system Component		
19	3-3-22	Practical study of refrigerant-compressor		
20	7-3-22	Compressor, Evaporators.		
21	8-3-22	Expansion valve, drier, filters		
22	10-3-22	Selection criteria for the Component of vcr system		
23	12-3-22	Flow Control, Temp-pressure control, Safety device		
24	12-3-22	Dehydrating, Leak-detection test		
25	14-3-22	Psychrometric properties of moist air		

Dr. R. Badnera
HOD

Dr. R. Badnera
HOD

Execution Plan

Name of Faculty: Aakash S Patil

Semester VIII TH

Section: A/B/C

B/C

Subject Code: SME02

Subject Name: Refrigeration and Air-Conditioning

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
26	15-3-22	Psychrometric Chart. Concepts of DBT, WBGT, DPT.	[Signature]	[Signature] HOD Mechanical Engineering T & A Building
27	15-3-22	Psychrometric process and chart	[Signature]	
28	17-3-22	Mixing of air, Evaporative cooling towers	[Signature]	
29	17-3-22	Human-Comfort: - metabolism, human body, climate	[Signature]	
30	17-3-22	Concept of Effective temp. optimum Effective Temp.	[Signature]	
31	21-3-22	Numericals	[Signature]	
32	22-3-22	Numericals	[Signature]	
33	24-3-22	Introduction to Air-Conditioning System.	[Signature]	
34	28-3-22	Unitary system, package unit, split pack	[Signature]	
35	28-3-22	Central system Components, type distribution	[Signature]	
36	31-3-22	All weather and All Air- system	[Signature]	
37	4-4-22	Summer & year round Air-conditioning.	[Signature]	
38	6-4-22	Load estimation and distribution, Type of supply	[Signature]	
39	7-4-22	Consideration of selection of outlet Temp.	[Signature]	
40	11-4-22	Introduction to load calculation,	[Signature]	
41	12-4-22	Applied psychrometry, sensible heat losses	[Signature]	
42	18-4-22	Cooling load estimation.	[Signature]	
43	19-4-22	Heating load estimation	[Signature]	
44	21-4-22	Numericals.	[Signature]	
45	25-4-22	Numericals.	[Signature]	
46	26-4-22	Numericals.	[Signature]	
47	27-4-22	Numericals	[Signature]	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty:- N. S. Poharkar Semester VI Section: A/B/C

Subject Code: 6ME02 Subject Name: Design of M/c Elements

A

Sr. No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	11/2/22	meaning of design, phases & Introduction	☑	
2	14/2/22	Thermal stress, Torsional, Bending stresses	☑	
3	16/2/22	Riveted joints & it's Numericals	☑	
4	17/2/22	Welded Joints & it's Numericals	☑	
5	18/2/22	Numericals	☑	
6	21/2/22	Numericals	☑	
7	23/2/22	Hooks & C-clamps Numericals	☑	
8	24/2/22	Design of knuckle joints.	☑	
9	25/2/22	Numericals	☑	
10	2/3/22	Design of spiral & leaf springs	☑	
11	7/3/22	Numericals	☑	
12	8/3/22	Design of power screw	☑	
13	9/3/22	Numerical & Theory	☑	
14	9/3/22	Numerical & Theory	☑	
15	21/3/22	Stresses in power screw	☑	
16	22/3/22	Design of shaft subjected to twisting	☑	
17	23/3/22	Numericals	☑	
18	28/3/22	Design of shaft subjected to bending	☑	
19	30/3/22	Numerical.	☑	
20	4/4/22	Design of shaft subjected to combined twisting & Bending	☑	
21	5/4/22	Numericals & rigidity of shaft	☑	
22	6/4/22	Numericals.	☑	
23	11/4/22	Design of rigid coupling	☑	
24	18/4/22	Numericals	☑	
25	25/4/22	Design of flexible coupling.	☑	
26	26/4/22	Numericals	☑	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering


(Odd/Even Semester 2021-22)


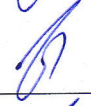

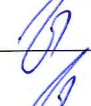
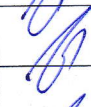
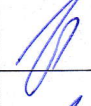
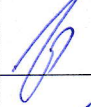

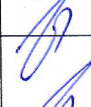
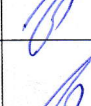
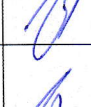
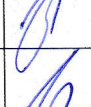


Execution Plan

Name of Faculty:- N. S. Pabekar Semester VI Section: A/B/C

Subject Code: EME02 Subject Name: DME

C

Sr.No.	Date	Topics Covered	Sign. Of Faculty	Sign of HOD
1	11/2/22	Meaning of design, phases & Introduction	Ⓟ	 Head of Department Department of Mechanical Engineering Prof. Ram Meghe Institute of Technology & Research, Badnera
2	14/2/22	Thermal, torsional bending stresses	Ⓟ	
3	16/2/22	Riveted joint	Ⓟ	
4	21/2/22	Numericals	Ⓟ	
5	23/2/22	welded joint	Ⓟ	
6	24/2/22	Numericals.	Ⓟ	
7	25/2/22	Hook's & c-Clamp Numerical	Ⓟ	
8	2/3/22	Design of knuckle joint	Ⓟ	
9	8/3/22	Numerical	Ⓟ	
10	9/3/22	Design of spiral & leaf Spring	Ⓟ	
11	23/3/22	Numerical on spiral spring	Ⓟ	
12	23/3/22	Numerical on leaf spring	Ⓟ	
13	24/3/22	Design of power screw	Ⓟ	
14	30/3/22	Numericals	Ⓟ	
15	5/4/22	Numericals	Ⓟ	
16	6/4/22	Design of shaft subjected to twisting	Ⓟ	
17	13/4/22	Numericals	Ⓟ	
18	20/4/22	Design of shaft subjected to bending	Ⓟ	
19	26/4/22	Numericals	Ⓟ	
20	27/4/22	Design of shaft subjected to Combined	Ⓟ	
21	27/4/22	Numericals.	Ⓟ	
22	28/4/22	Design of shaft on the basis of rigidity	Ⓟ	
23	29/4/22	Numericals.	Ⓟ	
24	29/4/22	Numericals	Ⓟ	
25	30/4/22	Numericals.	Ⓟ	

17		Biomass: Sources and Characteristics Wet biogas plant Biomass gasifiers		3/3/22
18		Classification and Operating characteristics Updraft and Downdraft gasifier		5/4/22
19		Gasifier based electricity generating systems		6/4/22
20		Biogas-Types of bio gas plants, factors affecting production rates		19/4/22
21		Introduction to biodiesel and ethanol as alternative fuels		20/4/22
22		Energy from tides, basic principle of tidal power		29/4/22
23		Single basin and double basin tidal power plants, advantages, limitation and scope of tidal energy		24/4/22
24		Ocean Thermal Electric Conversion (OTEC) systems like open cycle, closed cycle, Hybrid cycle, Prospects of OTEC in India		26/4/22
25		Wave energy and power from wave, Wave energy conversion devices		26/4/22
26		Advantages and disadvantages of wave energy		27/4/22
27		Introduction, working principle of fuel cell Types of fuel cells, conversion efficiency of fuel cell, application of fuel cells.		28/4/22
28		Hydrogen as alternative fuel, Production methods, Hydrogen storage		4/5/22
29		Hot Dry Rock system, Vapor dominated, liquid dominated, Flash steam, Binary fluid		4/5/22
30		Total flow concept of power generation		5/5/22

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of Mechanical Engineering

(Odd/Even Semester 2021-22)

Execution Plan

Name of Faculty: S.M. Patil

Semester III

Section: A/B/C

B

Subject Code: _____

Subject Name: Control Sys. Engg.

Sr.No.	Date	unit - I	Topics Covered	Sign. Of Faculty	Sign of HOD
1	16/2/22	Introduction to CSE			
2	17/2/22	System, control system, loop, F-loop.			
3	18/2/22	open & close loop system			
4	19/2/22	Numerically on BDR			
5	24/2/22	— II —			
6	25/2/22	Introduction to SFG.			
7	26/2/22	Numerically on SFG.			
8	27/2/22	Numerically on SFG.			
		unit - II			
9	2/3/22	Introduction to transient Response.			
10	3/3/22	Test signals & types of it.			
11	4/3/22	step Ramp, impulse, steady state			
12	5/3/22	Numerically on time Response			
13	9/3/22	— II —			
14	10/3/22	Numerically on steady state Response.			
15	11/3/22	Numerical on steady state.			
		unit - III			
16	12/3/22	Introduction to stability.			
17	16/3/22	Procedure to draw root locus.			
18	17/3/22	system with transportation lag			
19	23/3/22	Numerical on root locus			
20	24/3/22	Numerical on root locus			
21	25/3/22	Numerical on Routhy criteria			
22	26/3/22	Numerical on Hurwitz criteria			

Head
Department of Mechanical Engineering
P.R.M.I.T. & R. Badnera

AY:- 2021-22

Lesson Plan

Name of Faculty :- Prof. P. P. Thosare		Semester:- I
Subject:	Basic Electrical Engineering	Section : I
Lecture No.	Topics	Remark
1	Importance of subject & Introduction to syllabus	
Unit – I: Fundamentals		
2	Basic concept of voltage, current, Power and energy.	
3	Resistance, resistivity, conductance, conductivity, Ohm's Law	
3	Temperature effect on resistance , Temperature coefficient of resistance	
4	Numerical on Temperature coefficient of resistance.	
5	Series & Parallel circuits	
6	Numerical on Series & Parallel circuits	
7	Delta – Star & Star-Delta transformation	
8	Numerical on Star Delta transformation	
9	Kirchhoff 's laws (KCL & KVL)	
10	Superposition Theorem	
11	Thevenin's Theorem	
12	Numericals on Superposition & Thevenin's Theorem	
Unit-II: Magnetic Circuit & Electromagnetism		
13	Basic concepts of Magnetic flux, Flux density, MMF, Reluctance, Magnetic field intensity & their relationship	
14	Magnetic Leakage & Fringing of flux	
15	Series & Parallel magnetic circuit	
16	Series & Parallel magnetic circuit with air gap	
17	Series & Parallel magnetic circuit without air gap	
18	Numerical on series magnetic circuit	
19	Principles of electromagnetic induction, Self and mutual induction	
20	Magnetization curves	
Unit – III : AC fundamentals		
21	RMS and average values, Form factor, peak factor (for sinusoidal waveform only)	
22	Purely resistive, inductive & capacitive circuit	
23	Single phase AC Series circuit with resistance , inductance & Capacitance	
24	Numericals on RLC series circuit.	

25	Phasor diagrams for series circuit & Series resonance	
26	Impedance triangle, Active & reactive power.	
27	Resonance in Series R-L-C Circuit and Numericals	
Unit – IV : Polyphase Circuit		
28	Generation of three phase EMF.	
29	3 Phase Balanced Delta and Star connected system.	
30	Voltage and Current relationship between phase and line quantities for star connection	
31	Numerical on three phase star connected system	
32	Voltage and Current relationship between phase and line quantities for Delta connection	
33	Numerical on three phase Delta connected system	
Unit – V : Electrical Machines		
35	A) Single phase Transformer:	
36	Principle of operation	
37	Construction & Classification	
38	EMF equation, losses, efficiency, Regulation of Transformer	
39	Numericals on efficiency, regulation of transformer	
40	B) Electromechanical Energy Conversion:	
41	Construction & various parts of DC machines	
42	Classification of DC machines, Characteristics & applications of DC machines	
Unit – VI : Electrical Apparatus & Safety		
43	Measurement of current & voltage (Ammeter & Voltmeter)	
44	Measurement of power & energy (Wattmeter & Energy- meter)	
45	Range extension of Ammeter, Voltmeter, Wattmeter & Energy- meter	
45	Necessity of Earthing, Limiting values for various installation, Types of Earthing (Pipe earthing & plate earthing)	
46	Measurement of current & voltage (Ammeter & Voltmeter)	

AY:	2021-22	Lesson Plan	
Name	Prof. Shailesh S. Dhok		Semester:- I st
Subject	Computer Programming	Subject Code:-IA4	Section : C
Lecture No.	Topics		Remark
Unit-I	Fundamental of the Computer and Computing Concepts		
Lect1	Generation of computers		
Lect2	Classification of computers		
Lect3	Basic Anatomy of Computer System, Input Devices, Processor, Output Devices, Memory Management		
Lect4	Types of Computer Software, Overview of Operating system,		
Lect5	Networking Concepts, Microsoft Office,		
Lect6	Number systems: Decimal, Binary, Hexadecimal, Octal		
Lect7	Conversion of Numbers, Binary Arithmetic Operations		
Lect8	Programming Languages, Logic Gates		
Unit-II	C Fundamentals:		
Lect9	Introduction, Importance of C		
Lect10	Basic Structure of C Programs, Program execution		
Lect11	Basic programs based on C such as Printing Message		
Lect12	Adding two numbers, Interest calculations		
Lect13	Use of subroutines, math function		
Lect14	C tokens, Keywords and Identifiers,		
Lect15	Operators & their precedence, Assignment statement.		
Lect16	Declaration of Variables, Declaration of Storage Class		
Unit-III	Operators, Expression and Input-Output operation		
Lect17	Operators, Types of Operators: Arithmetic, Relational		
Lect18	Assignment, Increment-decrement		
Lect19	Logical operator Assignment, Conditional operator		
Lect20	Bitwise operator, Special operator		
Lect21	Evaluation of Expression		
Lect22	Precedence of Arithmetic Operators		
Lect23	Input-Output Operation: Reading and Writing Character		
Lect24	Formatted Input, Formatted Output.		
Unit - IV	C Control constructs		
Lect25	Decision-making using if, if-else		
Lect26	Nested if, else if ladder		
Lect27	switch-case statement		
Lect28	Operator, Goto Operator		
Lect29	Loops using for, while, do-while statements		
Lect30	break and continue statements		
Lect31	Jumps in loop		
Lect32	Concise Test Expressions		
Unit - V	Array, Strings and Structures		
Lect33	Introduction to array, One Dimensional Array: Declaration & Initialization,		

Lect34	Two Dimensional: Declaration & Initialization, Multi Dimensional,	
Lect35	Strings: Declaration and Initialization, Reading String from terminal, Writing String to Screen	
Lect36	Putting Strings together, Comparison of Two Strings	
Lect37	String-Handling Functions	
Lect38	Table of Strings, Other features of String,	
Lect39	Structures – Define, Declaration	
Lect40	Accessing the members of a structure	
Unit - VI	User Defined Functions, Pointers and File Management	
Lect41	Functions, Need for User defined Functions	
Lect42	Multi Function Program, Elements of User Defined Functions	
Lect43	Return Values and their types, Function Calls	
Lect44	Function Declaration, and Categories of Functions	
Lect45	Definition and uses of pointers, Accessing the address of a variable,	
Lect46	Introduction to File Management	
Lect47	Defining and Opening File, Closing File, Input/output Operations on File.	
Lect48	Input/output Operations on File.	

AY:- 2021-22

Lesson Plan

Name of Faculty :- Prof. DR - K.D. Umale		Semester:- II
Subject:	ENGG. CHEMISTRY	Section : A
Lecture No.	Topics	Remark
	Water Treatment and Analysis	
1	Introduction, Hardness of water, Types of hardness - temporary & permanent hardness, Units of Hardness and their inter-conversion	
2	Hardness determination by EDTA method	
3	Disadvantages of hard of water, Boiler troubles: Scale and Sludge formation, Caustic embrittlement,	
4	Priming & Foaming, Boiler corrosion	
5	Zeolite process and Reverse Osmosis (RO)	
6	Softening of hard water by Ion exchange process & its regeneration	
7	Numerical Problem based on Hardness of water	
8	Numerical Problem based on Zeolite process	
	UNIT No. 2	
	Corrosion and Energy storage system	
9	Introduction of corrosion, Dry and its mechanism	
10	Wet corrosion and its mechanism	
11	Pitting, waterline and inter-granular corrosion	
12	Galvanic and stress corrosion	
13	Role of design and material selection in corrosion control	
14	Anodic and cathodic protection, Hot dipping (Galvanizing and tinning processes)	
15	Basic principles of batteries & their types,	
16	Construction, working and application of lithium-ion battery, Ni-Cd battery.	
	UNIT No. 3	
	Engineering Materials	
17	Introduction of Portland cement, Raw materials for the manufacturing of portland cement.	
18	Manufacturing of portland cement by wet Process	
19	Properties of cement- Setting and hardening	
20	Heat of hydration and soundness of cement	
21	Introduction of Lubricants and its classification, Mechanism of Lubrication	
22	Testing of lubricants for viscosity and viscosity index, flash and fire point	
23	Industrial Material: Definition, properties and Applications of ceramics & refractories.	
24	Industrial Material: Definition, properties and Applications of thermal insulating material and Nanomaterial	
	UNIT No. 4	
	Energy Science	

Energy Science	
25	Introduction of Fuels and its classification, Calorific value and its type- net and gross calorific value
26	Proximate and its significance
27	Ultimate analysis and its significance
28	Cracking of petroleum fractions, Use of gasoline and diesel in internal combustion engines
29	Knocking, chemical constitution and knocking properties, octane and cetane number
30	Numerical based on combustion
31	Numerical based on combustion
32	Numerical based on combustion
UNIT No. 5	
Polymer chemistry	
33	Introduction, Classification of polymer on the basis of their structure
34	Method of polymerization
35	Cationic and Anionic mechanism of polymerization
36	Thermosetting and thermoplastic resin
37	Preparation, properties and uses of PVC, Teflon,
38	Preparation, properties and uses Bakelite, Introduction of Natural rubber, vulcanization of rubber
39	Preparation, properties and uses of synthetic rubber-styrene, nitrile and butyl rubber
40	Biodegradable polymers: properties and applications, Conducting polymers: Introduction, types of conducting polymer and their examples
UNIT No. 6	
41	Phase rule, Explanation of the terms: Phase, Components and Degree of Freedom
42	Application of Phase rule to One Component System (Water System),
43	Condensed phase rule and its application to two component system (Bi-Cd).
44	Principles and instrumentation of spectrophotometry
45	U.V and IR spectroscopy
46	Principle & instrumentation of NMR spectroscopy
47	Surface characterization technique: X-ray diffraction

Prof. Ram Meghe Institute of Technology & Research, Badnera
 Department of First Year Engineering Department
 Lesson Plan

AY: 2021-22

Name of Faculty :- Prof. Dr. N. B. Ingale		Semester: I
Subject:	Engineering Physics	Section: A
Lecture No.	Topics	Remark
1	Introduction	
2	Formation of energy band	
3	Classification of solid on the basis of energy band gap	
4	Fermi level in intrinsic P and N type semiconductor	
5	Effect of temperature and impurity on fermi level	
6	Fermi level equation for intrinsic semiconductor	
7	Conductivity Equation, Problems	
8	Law of mass action and Charge neutrality equation	
9	Hall effect	
10	Problems	
11	Properties of photon	
12	De Broglie's hypothesis and equation	
13	Compton effect and its characteristics	
14	Compton shift Equation	
15	Problems	
16	Heisenberg's Uncertainty principle	
17	Energy-time equation	
18	Applications of Uncertainty principle	
19	Problems	
20	Basic concepts of electric and magnetic field	
21	Motion of electron in transversed electric field	
22	Motion of electron in transversed magnetic field	
23	deflection of electron confined to a small region	
24	motion of e- in cross electric and magnetic field	
25	Positive Rays, Bainbridge mass spectrograph	
26	CRO; Block diagram, its working and applications	
27	Problems	
28	Interference: Thin film due to reflected light	
29	Newton's ring	
30	Applications of Newton's rings	
31	Diffraction: Theory and Grating equation	
32	Problems	
33	FIBER OPTICS : Construction and principle	
34	Acceptance angle and NA	
35	Types of Optical fiber	
36	Attenuation, Advantages and applications	
37	Problems	
38	Laser: Properties, Applications	
39	Absorption, spontaneous and stimulated emission	
40	Metastable state, Pumping, Three level laser	
41	Ruby laser	
42	Acoustics of Buildings: reverberation, Sabine's Eqn.	
43	Basic Requirements for Acoustically Good Hall	
44	Factors affecting acoustically Good Hall	
45	Problems	
46	Continuity equation, Viscosity, Stoke's law	
47	Bernoulli's theorem	
48	Poiseuille's Equation	
49	Ultrasonics: Properties, Production of Ultrasonic	
50	Uses of Ultrasonics waves and Problems	

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 N. B. Ingale

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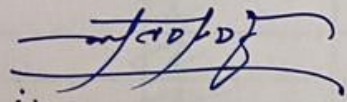
Name of Faculty :- Prof. C.T. Prajapati		Semester: I
Subject:	Engineering Mechanics	Section : C
Lecture No.	Topics	Remark
1	RESULTANT- Concept of a force	
2	RESULTANT- Moment of a force about a point and about an axis, couple	
3	RESULTANT- Resolution and compositions of coplanar force system.	
4	RESULTANT- Reduction of system of forces into a force and a couple equivalent force system.	
5	EQUILIBRIUM- Free-body diagrams, equations of equilibrium	
6	EQUILIBRIUM- Problems of equilibrium involving co-planar force system acting on a particle	
7	EQUILIBRIUM- Rigid body and system of rigid bodies	
8	EQUILIBRIUM- Problems of equilibrium of non-coplanar concurrent force system	
9	TRUSS- Analysis of simple plane trusses	
10	TRUSS- Method of joints	
11	TRUSS- Method of sections	
12	TRUSS- Analysis of frames involving ideally connected members.	
13	FRICTION- Coulomb's law of friction	
14	FRICTION- Problems on Friction	
15	FRICTION- Static belt friction	
16	FRICTION- Wedge friction	
17	CENTROID- First moment of an area and centroid	
18	CENTROID- Second moment of an area	
19	CENTROID- Centroid	
20	CENTROID- Product of area	
21	CENTRE OF GRAVITY- Transfer theorems, polar moment of inertia	
22	CENTRE OF GRAVITY- Radius of gyration	
23	CENTRE OF GRAVITY- Definition of principle axes and principle moment of inertia.	
24	KINEMATICS- Definitions of displacement, velocity and acceleration and their relations	
25	KINEMATICS- Rectilinear motion under variable & constant accelerations	
26	KINEMATICS- Motion curves	
27	KINEMATICS- Simple relative motion between two particles	
28	KINEMATICS- Curvilinear motion using rectangular coordinates	
29	KINEMATICS- Normal and tangential components	
30	KINEMATICS- Kinematics of rigid body motion in rectilinear translation	
31	KINEMATICS- Rotation about a fixed axis and plane motion	

C.T. Prajapati

32	KINETICS- Kinetics of rectilinear and circular motion of a particle acted upon by constant force system	
33	KINETICS- Kinetics of rectilinear and circular motion of a particle acted upon by variable force system	
34	KINETICS- D'Alembert's principle	
35	KINETICS- Concept of dynamic equilibrium	
36	KINETICS- Rectilinear motion of several interconnected particles	
37	KINETICS- Kinetics of rigid body rectilinear translation	
38	KINETICS- Rotation about a fixed axis of rigid body	
39	WORK, POWER and ENERGY- Work-energy equation for motion of a particle	
40	WORK, POWER and ENERGY- Problems on motion of a particle	
41	WORK, POWER and ENERGY- System of particles	
42	WORK, POWER and ENERGY- Work energy equation for rigid bodies rectilinear translation	
43	LINEAR IMPULSE- Linear impulse, linear momentum, momentum equation for a particle and a system of particles	
44	LINEAR IMPULSE- Collision of two particles	
45	LINEAR IMPULSE- Coefficient of restitution	

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Lecture No.	Topics	Remark
Unit 4 - Orthographic Projection		
23	Introduction	
24	Problems on orthographic projection by first angle method	
25	Problems on orthographic projection by first angle method	
26	Problems on orthographic projection by first angle method	
27	Problems on orthographic projection by third angle method	
28	Problems on orthographic projection by third angle method	
29	Problems on orthographic projection by third angle method	
Unit 5 - Isometric Views and Projection		
30	Introduction	
31	Problems on isometric views	
32	Problems on isometric views	
33	Problems on isometric views	
34	Problems on isometric views	
35	Problems on isometric projection	
36	Problems on isometric projection	
37	Problems on isometric projection	
Unit 6 - Introduction to CAD software		
38	Introduction	
39	Drafting environment and screen	
40	Coordinate systems	
41	Editing commands	
42	Drafting of basic geometrical shapes	
43	Display commands and dimension command	
44	CAD software customization	



Lecture No.	Topics	Remark
Unit 4 - Orthographic Projection		
23	Introduction	
24	Problems on orthographic projection by first angle method	
25	Problems on orthographic projection by first angle method	
26	Problems on orthographic projection by first angle method	
27	Problems on orthographic projection by third angle method	
28	Problems on orthographic projection by third angle method	
29	Problems on orthographic projection by third angle method	
Unit 5 - Isometric Views and Projection		
30	Introduction	
31	Problems on isometric views	
32	Problems on isometric views	
33	Problems on isometric views	
34	Problems on isometric views	
35	Problems on isometric projection	
36	Problems on isometric projection	
37	Problems on isometric projection	
Unit 6 - Introduction to CAD software		
38	Introduction	
39	Drafting environment and screen	
40	Coordinate systems	
41	Editing commands	
42	Drafting of basic geometrical shapes	
43	Display commands and dimension command	
44	CAD software customization	

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AY:- 2021-22

Name of Faculty :- <u>D. G. More</u>		Lesson Plan	Semester:- <u>I</u>
Subject : Engg. Mathematics - I		Subject Code:- IA1/11945	Section : <u>E</u>
Lect No	Topics	Remark	
1	Unit I:-Introduction of syllabus & university Examination Pattern.		
2	Successive differentiation		
3	Leibnitz's theorem 1		
4	Leibnitz's theorem 2		
5	Expansion of a function by using Taylor's theorem.		
6	Expansion of a function by using Maclaurin's theorem.		
7	Indeterminate form 1		
8	Indeterminate form 2		
9	Unit 2:-Introduction of partial differentiation		
10	Partial differentiation		
11	Total differential coefficients 1.		
12	Exact differential.		
13	Euler's theorem on homogeneous function 1.		
14	Euler's theorem on homogeneous function 2.		
15	Maxima and Minima of a function by Lagrange's Method 1		
16	Maxima and Minima of a function by Lagrange's Method 2		
17	Unit 3:-Introduction of Complex Number		
18	Demoiver's theorem.		
19	Application of Demoiver's theorem 1.		
20	Application of Demoiver's theorem 2.		
21	Hyperbolic function		
22	Inverse hyperbolic function		
23	Separation of real and Imaginary parts of Complex Number		
24	Logarithm of Complex number		
25	Unit 4:-Introduction First order and first degree in various forms, Variable separable		
26	Homogeneous differential equation.		
27	Reducible to Homogeneous differential equation.		
28	Exact differential equation.		
29	Reducible to Exact differential equation.		
30	Linear differential equation.		
31	Reducible to Linear differential equation.		
32	Methods of Substitution.		
33	Unit 5:-Introduction of differential equation of first order and higher degree.		
34	Solvable for P 1.		
35	Solvable for P 2.		
36	Solvable for Y 1.		

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37	Solvable for Y 2	
38	Solvable for X	
39	Application of D.E of first order and higher degree to the Problem on orthogonal trajectories	
40	Application of D.E of first order and higher degree to the Problem on Electrical Engineering	
41	Unit 6:-Introduction of Sequences and Series	
42	Convergence of sequences and series	
43	Tests for convergence	
44	Comparison Test	
45	Ratio Test	
46	Root Test	
47	Raabe's Test	
48	Range of Convergence	



Sl. No.	Topic	Page No.
1	Use of induction to matrix	1
2	gauss-jordan method for inverse	2
3	rank of the matrix	3
4	Rank and Nullity Theorem	4
5	Solution of simultaneous equations by matrix method.	5
6	Characteristic equation, eigen values	6
7	Eigen vectors	7
8	Cayley Hamilton theorem to find inverse	8
9	Ques III : Introduction to Fourier series and it's uses.	9
10	Fourier series for periodic function in the range $(c, c+2L)$	10
11	Fourier series in the range $(c, c+2L)$	11
12	Half range Fourier like series	12
13	Half range Fourier cosine series.	13
14	Parseval's Theorem	14
15	Heuristic Analysis: introduction	15
16	Problems on Heuristic Analysis	16
17	Unit III : Introduction to reduction formulae	17
18	Reduction formulae	18
19	Reduction formulae	19
20	Gamma function and its properties	20
21	Gamma function examples	21
22	Beta function and its properties	22
23	Examples of Beta function	23
24	Relation between beta and gamma function	24
25	Unit IV : Rules of differentiation under integral sign when limit's are constant	25
26	Rules of Differentiation under integral sign when limit's are constant	26
27	Tracing of curve in cartesian coordinates.	27
28	Tracing of curve in polar coordinates.	28
29	Tracing of curve in polar and parametric form	29
30	differentiation in cartesian coordinates	30
31	differentiation in cartesian coordinates	31

32	Rectification in polar coordinate.	
33	Unit V : Introduction to Double Integration.	
34	Double integration in polar coordinates	
35	Change the order of integration	
36	Change the order of integration	
37	Changing from cartesian to polar coordinates.	
38	Changing from cartesian to polar coordinates.	
39	Evaluation of Area by Double Integration	
40	Evaluation of Area by Double Integration	
41	Unit VI : Introduction and meaning of triple integration	
42	Triple integration in cartesian coordinates.	
43	Triple integration in cartesian coordinates.	
44	Triple integration in spherical polar coordinates.	
45	Volume of solid by triple integration.	
46	Volume of solid by triple integration.	
47	Introduction to mean and R.M.S values.	
48	Mean values and R.M.S values.	

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Lesson Plan

Name of Faculty :- Prof. P. P. Thosare		Semester:- <u>II</u>
Subject:	Basic Electrical Engineering	Section <u>D</u>
Lecture No.	Topics	Remark
1	Importance of subject & Introduction to syllabus	
	Unit – I: Fundamentals	
2	Basic concept of voltage, current, Power and energy.	
3	Resistance, resistivity, conductance, conductivity, Ohm's Law	
3	Temperature effect on resistance , Temperature coefficient of resistance	
4	Numerical on Temperature coefficient of resistance.	
5	Series & Parallel circuits	
6	Numerical on Series & Parallel circuits	
7	Delta – Star & Star-Delta transformation	
8	Numerical on Star Delta transformation	
9	Kirchhoff's laws (KCL & KVL)	
10	Superposition Theorem	
11	Thevenin's Theorem	
12	Numericals on Superposition & Thevenin's Theorem	
	Unit-II: Magnetic Circuit & Electromagnetism	
13	Basic concepts of Magnetic flux, Flux density, MMF, Reluctance, Magnetic field intensity & their relationship	
14	Magnetic Leakage & Fringing of flux	
15	Series & Parallel magnetic circuit	
16	Series & Parallel magnetic circuit with air gap	
17	Series & Parallel magnetic circuit without air gap	
18	Numerical on series magnetic circuit	
19	Principles of electromagnetic induction, Self and mutual induction	
20	Magnetization curves	
	Unit – III : AC fundamentals	
21	RMS and average values, Form factor, peak factor (for sinusoidal waveform only)	
22	Purely resistive, inductive & capacitive circuit	
23	Single phase AC Series circuit with resistance , inductance & Capacitance	
24	Numericals on RLC series circuit.	

25	Phasor diagrams for series circuit & Series resonance	
26	Impedance triangle, Active & reactive power.	
27	Resonance in Series R-L-C Circuit and Numericals	
	Unit – IV : Polyphase Circuit	
28	Generation of three phase EMF.	
29	3 Phase Balanced Delta and Star connected system,	
30	Voltage and Current relationship between phase and line quantities for star connection	
31	Numerical on three phase star connected system	
32	Voltage and Current relationship between phase and line quantities for Delta connection	
33	Numerical on three phase Delta connected system	
	Unit – V : Electrical Machines	
35	A) Single phase Transformer:	
36	Principle of operation	
37	Construction & Classification	
38	EMF equation, losses, efficiency, Regulation of Transformer	
39	Numericals on efficiency, regulation of transformer	
40	B) Electromechanical Energy Conversion:	
41	Construction & various parts of DC machines	
42	Classification of DC machines, Characteristics & applications of DC machines	
	Unit – VI : Electrical Apparatus & Safety	
43	Measurement of current & voltage (Ammeter & Voltmeter)	
44	Measurement of power & energy (Wattmeter & Energy- meter)	
45	Range extension of Ammeter, Voltmeter, Wattmeter & Energy- meter	
45	Necessity of Earthing, Limiting values for various installation, Types of Earthing (Pipe earthing & plate earthing)	
46	Measurement of current & voltage (Ammeter & Voltmeter)	

Prof. Ram Meghe Institute of Technology & Research, Badnera
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AY:	2021-22	Lesson Plan	
Name	Prof. Shailesh S. Dhok		Semester:- I st
Subject	Computer Programming	Subject Code:-IA4	Section :
Lecture No.	Topics		Remark
Unit-I	Fundamental of the Computer and Computing Concepts		
Lect1	Generation of computers		
Lect2	Classification of computers		
Lect3	Basic Anatomy of Computer System, Input Devices, Processor, Output Devices, Memory Management		
Lect4	Types of Computer Software, Overview of Operating system,		
Lect5	Networking Concepts, Microsoft Office,		
Lect6	Number systems: Decimal, Binary, Hexadecimal, Octal		
Lect7	Conversion of Numbers, Binary Arithmetic Operations		
Lect8	Programming Languages, Logic Gates		
Unit-II	C Fundamentals:		
Lect9	Introduction, Importance of C		
Lect10	Basic Structure of C Programs, Program execution		
Lect11	Basic programs based on C such as Printing Message		
Lect12	Adding two numbers, Interest calculations		
Lect13	Use of subroutines, math function		
Lect14	C tokens, Keywords and Identifiers,		
Lect15	Operators & their precedence, Assignment statement.		
Lect16	Declaration of Variables, Declaration of Storage Class		
Unit-III	Operators, Expression and Input-Output operation		
Lect17	Operators, Types of Operators: Arithmetic, Relational		
Lect18	Assignment, Increment-decrement		
Lect19	Logical operator Assignment, Conditional operator		
Lect20	Bitwise operator, Special operator		
Lect21	Evaluation of Expression		
Lect22	Precedence of Arithmetic Operators		
Lect23	Input-Output Operation: Reading and Writing Character		
Lect24	Formatted Input, Formatted Output.		
Unit - IV	C Control constructs		
Lect25	Decision-making using if, if-else		
Lect26	Nested if, else if ladder		
Lect27	switch-case statement		
Lect28	Operator, Goto Operator		
Lect29	Loops using for, while, do-while statements		
Lect30	break and continue statements		
Lect31	Jumps in loop		
Lect32	Concise Test Expressions		
Unit - V	Array, Strings and Structures		
Lect33	Introduction to array, One Dimensional Array: Declaration & Initialization,		

Lect34	Two Dimensional: Declaration & Initialization, Multi Dimensional,	
Lect35	Strings: Declaration and Initialization, Reading String from terminal, Writing String to Screen	
Lect36	Putting Strings together, Comparison of Two Strings	
Lect37	String-Handling Functions	
Lect38	Table of Strings, Other features of String.	
Lect39	Structures – Define, Declaration	
Lect40	Accessing the members of a structure	
Unit - VI	User Defined Functions, Pointers and File Management	
Lect41	Functions, Need for User defined Functions	
Lect42	Multi Function Program, Elements of User Defined Functions	
Lect43	Return Values and their types, Function Calls	
Lect44	Function Declaration, and Categories of Functions	
Lect45	Definition and uses of pointers, Accessing the address of a variable,	
Lect46	Introduction to File Management	
Lect47	Defining and Opening File, Closing File, Input/output Operations on File.	
Lect48	Input/output Operations on File.	

AY:- 2021-22

Lesson Plan

Name of Faculty :- Prof. DR - K.D. Umale		Semester:- II
Subject: ENGG. CHEMISTRY		Section : A
Lecture No.	Topics	Remark
	Water Treatment and Analysis	
1	Introduction, Hardness of water, Types of hardness - temporary & permanent hardness, Units of Hardness and their inter-conversion	
2	Hardness determination by EDTA method	
3	Disadvantages of hard of water, Boiler troubles: Scale and Sludge formation, Caustic embrittlement,	
4	Priming & Foaming, Boiler corrosion	
5	Zeolite process and Reverse Osmosis (RO)	
6	Softening of hard water by Ion exchange process & its regeneration	
7	Numerical Problem based on Hardness of water	
8	Numerical Problem based on Zeolite process	
	UNIT No. 2	
	Corrosion and Energy storage system	
9	Introduction of corrosion, Dry and its mechanism	
10	Wet corrosion and its mechanism	
11	Pitting, waterline and inter-granular corrosion	
12	Galvanic and stress corrosion	
13	Role of design and material selection in corrosion control	
14	Anodic and cathodic protection, Hot dipping (Galvanizing and tinning processes)	
15	Basic principles of batteries & their types,	
16	Construction, working and application of lithium-ion battery, Ni-Cd battery.	
	UNIT No. 3	
	Engineering Materials	
17	Introduction of Portland cement, Raw materials for the manufacturing of portland cement.	
18	Manufacturing of portland cement by wet Process	
19	Properties of cement- Setting and hardening	
20	Heat of hydration and soundness of cement	
21	Introduction of Lubricants and its classification, Mechanism of Lubrication	
22	Testing of lubricants for viscosity and viscosity index, flash and fire point	
23	Industrial Material: Definition, properties and Applications of ceramics & refractories.	
24	Industrial Material: Definition, properties and Applications of thermal insulating material and Nanomaterial	
	UNIT No. 4	
	Energy Science	

Energy Science	
25	Introduction of Fuels and its classification, Calorific value and its type- net and gross calorific value
26	Proximate and its significance
27	Ultimate analysis and its significance
28	Cracking of petroleum fractions, Use of gasoline and diesel in internal combustion engines
29	Knocking, chemical constitution and knocking properties, octane and cetane number
30	Numerical based on combustion
31	Numerical based on combustion
32	Numerical based on combustion
UNIT No. 5	
Polymer chemistry	
33	Introduction, Classification of polymer on the basis of their structure
34	Method of polymerization
35	Cationic and Anionic mechanism of polymerization
36	Thermosetting and thermoplastic resin
37	Preparation, properties and uses of PVC, Teflon,
38	Preparation, properties and uses Bakelite, Introduction of Natural rubber, vulcanization of rubber
39	Preparation, properties and uses of synthetic rubber-styrene, nitrile and butyl rubber
40	Biodegradable polymers: properties and applications, Conducting polymers: Introduction, types of conducting polymer and their examples
UNIT No. 6	
41	Phase rule, Explanation of the terms: Phase, Components and Degree of Freedom
42	Application of Phase rule to One Component System (Water System),
43	Condensed phase rule and its application to two component system (Bi-Cd).
44	Principles and instrumentation of spectrophotometry
45	U.V and.IR spectroscopy
46	Principle & instrumentation of NMR spectroscopy
47	Surface characterization technique: X-ray diffraction

Department of Management Studies
Semester –I
Teaching Plan-2021-2022
Subject: Accounting for Managers
Subject Teacher: Prof. G.S.KALMEGH

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Introduction to Accounting and Book Keeping, Single Entry System	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Double Entry System, Basic Accounting Terms		01	
	03	Financial Accounting, Management Accounting & Cost Accounting	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	04	Accounting Standards: Introduction, GAAP	Accounting for Mgt., Khan and Jain.	01	
	05	IFRS, GAAP Vs IFRS		01	
	06	Case Study and Situation		01	
Total Lecture				06	
II	01	Preparation of Accounting Books: 3 Golden Rules of Accounting	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Journal Entries		01	
	03	Ledger Preparation		01	
	04	Trial Balance		02	
	05	Preparation of Trading Account, Manufacturing Account: Part 1	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	06	Profit and Loss Account		01	
	07	Understanding Balance Sheet	Accounting for Mgt., Khan and Jain.	01	
	08	Numerical on Balance Sheet			
	09	Final Account Problems: Part 1			
	10	Final Account Problems: Part 2			
	11	Comparative Analytical Techniques (CAT)			
	12	Relative Analytical Techniques (RAT)			
Total Lecture				12	
III	01	Depreciation Methods: Part - I	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub.	01	
	02	Depreciation Methods: Part		01	

		- II			
	03	Inventory Valuation Methods – Part I	House. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New	01	
	04	Inventory Valuation Methods – Part II		01	
	05	Inventory Valuation Methods – Part III		01	
	06	Case Study and Situation		01	
Total Lecture				06	
IV	01	Management Accounting Concept, Need, Importance & Scope	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Budget & Budgetary control: Part I		01	
	03	Budget & Budgetary control: Part II	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	04	Budget & Budgetary control: Part III		01	
	05	Performance & zero Based Budgeting	Accounting for Mgt., Khan and Jain.	01	
	06	Case Study and Situation		01	
Total Lecture				06	
V	01	Cost Sheet: Introduction, Elements of Cost Sheets	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Types of Costing, Costing for Decision Making		01	
	03	Marginal Costing: Part I	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	04	Marginal Costing: Part I		01	
	05	Absorption Costing: Part I	Accounting for Mgt., Khan and Jain.	01	
	06	Absorption Costing: Part II		01	
	07	Case Study and Situation		01	
Total Lecture				07	

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Department of Management Studies
P.R.M.I.T. & R. Badnera


PRMIT&R**Department of Management Studies(MBA)****Session Plan 2021-2021****Business Ethics****Subject Teacher: Prof. Rajkumar K Dhanuka**

Unit No	Topic	Reference Book	Estimated Lectures
Unit No - I	INDIAN MANAGEMENT Indian Management – Principles	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
	Models & Theory of Karma	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
	Theory and Practices of Holistic Management and its relevance	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
	Case Lets & Case Study	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
Unit No - II	ETHICS Ethics – Meaning & Objectives	Business Ethics By:- CSV Murthy, Himalaya Publications	1
	Sources of Ethics	Business Ethics By:- CSV Murthy, Himalaya Publications By: -Frank Jefkins (Pearson Publication)	1
	Types of Business Ethics	Business Ethics By:- CSV Murthy, Himalaya Publications By: -Frank Jefkins (Pearson Publication)	1
	Factors influencing Business Ethics	Business Ethics By:- CSV Murthy, Himalaya Publications	2
	Ethics V/s Morals and Values	Business Ethics By:- CSV Murthy, Himalaya Publications	1
	Case Lets & Case Study	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	1
Unit No - III	MANAGING ETHICS Managing Ethics – Theories of Ethics	Business Ethics By:- CSV Murthy, Himalaya Publications	1
	Ethical Dilemma & Codes of Ethics , Behavioral Aspects of Ethics and Values	Business Ethics By:- CSV Murthy, Himalaya Publications	2
	Normative Ethics in Management, Need and Values of Ethics in Global Change	Business Ethics By:- CSV Murthy, Himalaya Publications	2

	Case Lets & Case Study	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
Unit No - IV	INDIAN VALUES IN MANAGEMENT Indian Values in Management – Secular and Spiritual Values	Business Ethics By:- CSV Murthy, Himalaya Publications Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	1
	Science and Human Values	Business Ethics By:- CSV Murthy, Himalaya Publications	2
	Lessons from Ancient Indian Educational System	Business Ethics By:- CSV Murthy, Himalaya Publications Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	1
	Case Lets & Case Study	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
Unit No - V	STRESS MANAGEMENT Stress Eustress & distress	Business Ethics By:- CSV Murthy, Himalaya Publications	1
	Indian Perspective of Stress Management	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	1
	Reasons for stress at workplace	Business Ethics By:- CSV Murthy, Himalaya Publications Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications By: -Frank Jefkins (Pearson Publication)	2
	Coping with a stress	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	1
	Case Lets & Case Study	Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	2
Total Lectures required to Cover Syllabus			35


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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Department of Management Studies					
Semester – I (Session 2021-2022)					
Subject: Managerial Economics					
SUBJECT TEACHER: Prof. P. A. Kalmegh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to Managerial Economics	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- Geetika	1	Total Lectures for Unit I: 6
	2	Concept & Need of Managerial Economics		1	
	3	Scope of Managerial Economics		1	
	4	Techniques and Applications of Managerial Economics		2	
	5	Case Study		1	
II	1	Utility Analysis & Marshal Approach	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- Geetika Managerial Economics- H. L. Ahuja	1	Total Lectures for Unit II: 8
	2	Law of diminishing marginal utility & problems		1	
	2	Demand Analysis, Determinants of demand		1	
	3	Demand Function, Law of Demand-problems		1	
	4	Elasticity of Demand and demand forecasting.		1	
	5	Law of Supply and Supply Analysis		1	
	6	Case Study/ Problems		2	
III	1	Intro. To production, Production & Cost function,	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- Geetika Managerial Economics- Ahuja	1	Total Lectures for Unit III: 8
	2	Law of diminishing marginal returns		1	
	3	Production Iso-quant, Iso-cost, Expansion path		1	
	4	Problems on Production Iso-quant, Iso-cost		1	
	5	Economies and Diseconomies of scale		1	
	6	short run and long run cost behavior		1	
	7	Case Study/ Problems		2	
IV	1	Theories of firm	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- Grrtika Managerial Economics- Ahuja	1	Total Lectures for Unit IV: 8
	2	Profit Maximization		2	
	3	Sales Maximization		1	
	4	Managerial Utility Model		1	
	5	Simon Satisfying Behaviour Model		1	
	6	Case Study/Problems		2	
V	1	Market Structure-Perfect Competition,	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- H. L. Ahuja	1	Total Lectures for Unit V: 6
	2	Monopoly, Oligopoly, Monopolistic Competition,		1	
	3	short term pricing in these market structure		2	
	4	Case Study/ Problems		2	
			Total Lectures Required	36	


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 Department of Management Studies
 P.R.M.I.T. & R, Badnera

Department of Management Studies
Semester –I (Session 2021-2022)
Subject: Management Information System
SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Management Information System : An Overview	Jawadekar W.S., Management Information System; D.P.Goyal, Management Information System; Gupta, Management Information System	1	Total Lectures for Unit I: 6
	2	Nature and Scope of MIS		1	
	3	Subsystems of MIS , MIS & Computer		2	
	4	MIS in Academics, MIS in Business		1	
	5	Caselet on Subsystem on MIS & MIS in Business		1	
II	1	Development of MIS: Information Requirement	Jawadekar W.S., Management Information System; D.P.Goyal, Management Information System; Gupta, Management Information System	1	Total Lectures for Unit II: 8
	2	Designing of MIS		1	
	3	Implementation of MIS		1	
	4	System Development Models		2	
	5	Quality in MIS		1	
	6	MIS Life Cycle		1	
	7	Caselet on MIS Designing, Implementation of MIS		1	
III	1	Decision-Making concepts	Jawadekar W.S., Management Information System; D.P.Goyal, Management Information System; Gupta, Management Information System	1	Total Lectures for Unit III: 8
	2	Decision Making : Decision Making Process		1	
	3	Stages in Decision Making ,Individual & Organizational Decision Making		2	
	4	Decision Making Models		1	
	5	Information System support for Decision Making Phase, MIS and Decision-Making		2	
	6	Caselet on Decision Making in MIS		1	
IV	1	Decision Support System : Concept, Constructing a DSS	Jawadekar W.S., Management Information System; D.P.Goyal, Management Information System; Gupta, Management Information System	1	Total Lectures for Unit IV: 8
	2	Executive Information System(EIS)		1	
	3	Artificial Intelligence System(AIS)		1	
	4	Knowledge Based Expert System(KBES)		2	
	5	Enterprise Management System(EMS)		1	
	6	Decision Support Management System(DSMS)		1	
	7	Caselet on Enterprise Management System		1	
V	1	MIS Application: Enterprise Resource Planning(ERP)	Jawadekar W.S., Management Information System; D.P.Goyal, Management Information System; Gupta, Management Information System	1	Total Lectures for Unit V: 6
	2	MIS & ERP		1	
	3	Business Process Re-Engineering(BPR)		1	
	4	MIS & BPR		1	
	6	Case Study on ERP		1	
	7	Case Study on BPR		1	
	Total Lectures Required				

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Department of Management Studies

Semester –I (Session 2021-2022)

Lesson Plan

Subject: Managerial Skills Development

Subject Teacher: Yuvaraj Vaidya

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted
I	1	Managerial Skills- Nature & Concepts	http://arulmj.tripod.com/mgrlskls.html	2
	2	Objectives, significance	http://www.answers.com/Q/Explain_managerial_roles_and_managerial_skills	1
	3	Employability Skills	http://www.kent.ac.uk/careers/sk/top-ten-skills.htm	1
	4	Soft Skills	https://bemycareercoach.com/soft-skills/list-soft-skills.html	1
	5	Technical Skills.	http://study.com/academy/lesson/what-are-technical-skills-in-management-definition-examples-quiz.html	1
	6	Case Study	University Question Papers	1
II	7	Importance & Nature of communication,	Business Communication by M Raman & P Singh	1
	8	Verbal and Non Verbal,	Business Communication by U Rai & S Rai	1
	9	Talking and Speaking	Business Communication by M Raman & P Singh	1
	10	Principles of effective communication,	https://www4.uwm.edu/cuts/bench/commun.htm	1
	11	Process of communication,	Business Communication by U Rai & S Rai	1
	12	Barriers of Communication,	Business Communication by U Rai & S Rai	1
	13	Types of Communication.	Business Communication by U Rai & S Rai	1
	14	Case Study	University Question Papers	1
III	15	Do's and Don'ts of Business Writing	Business Communication by M Raman & P Singh	2
	16	Business correspondence	Business Communication by M Raman & P Singh	1
	17	Report Writing	Business Communication by M Raman & P Singh	1

	18	e-communication	Business Communication by M Raman & P Singh	1
	19	Resume Writing, C.V. Writing,	Business Communication by U Rai & S Rai	1
	20	Case Study	Uniersity Question Papers	1
IV	21	Listening Skills	Business Communication by M Raman & P Singh	1
	22	Body Language	http://www.businessballs.com/body-language.htm	1
	23	Public Speaking	Business Communication by M Raman & P Singh	1
	24	Negotiation Skill.	https://www.ldsjobs.org/ers/ct/articles/effective-negotiation-skills?lang=eng	1
	25	Case Study	Uniersity Question Papers	1
V	26	Interview Techniques	Business Communication by M Raman & P Singh	2
	27	Group Discussions	Business Communication by M Raman & P Singh	1
	28	Presentation Skill.	Business Communication by U Rai & S Rai	1
	29	Meetings	Business Communication by U Rai & S Rai	1
	30	Case Analysis	Uniersity Question Papers	1
	31	Brain Storming	http://www.mindtools.com/brainstm.html	1
	32	Paper Writing and Presentation	http://www.miami.edu/index.php/undergraduate_research_and_community_outreach/research_opportunities_for_um_undergrads/presentations_research_papers/	1
33	Case Study	Uniersity Question Papers	1	

Total lectures required	36
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 P.R.M.I.T. & R., Badnera

PRMIT&R**Department of Management Studies(MBA)****Session Plan 2021-2022****Organizational Behavior and Effectiveness****Subject Teacher: Prof. Rajkumar K Dhanuka**

Unit No	Topic	Reference Book	Estimated Lectures
Unit No - I	Individual Behavior- Personality	Mainiero, L A & Tromley C.L. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.	1
	Learning	Mainiero, L A & Tromley C.L. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.	1
	Perception	Kolb, D. etc. Organizational Behaviour: An Experiential Approach. 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991	1
	Attitude & Beliefs	Kolb, D. etc. Organizational Behaviour: An Experiential Approach. 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991	2
	Case Lets & Case Study	University Question Papers	2
Unit No - II	Group Behavior – Meaning	French, W L, etc. Organization Development Theory, Practice and Research. 3 rd ed. New Delhi, Universal Book Stall, 1990.	1
	Types of Groups,	French, W L., etc. Organization Development Theory, Practice and Research. 3 rd ed. New Delhi, Universal Book Stall, 1990.	1
	Group Processes	Mainiero, L A & Tromley C.L. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.	1
	Group Dynamics – factors influencing intergroup behavior and managing intergroup behavior	Mainiero, L A & Tromley C.L. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.	2
	Case Lets & Case Study	University Question Papers	2
Unit No - III	Organizational Change – Concept & Need	Kolb, D. etc. Organizational Behaviour: An Experiential Approach. 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991	1
	Change Process	Kolb, D. etc. Organizational Behaviour: An Experiential Approach. 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991	1
	Reasons for	Mainiero, L A & Tromley C.L. Developing Managerial Skills in	1

	Resistance to Change		
	Measures to Overcome Resistance to Change	OB. New Delhi, Prentice Hall of India, 1985.	1
		Mainiero, L A & Tromley C.L. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.	
	Case Lets & Case Study	University Question Papers	2
Unit No - IV	Organizational Processes – Organizational Powe	De Nitish. Alternative Designs of Human Organizations. London, Sage, 1988.	2
	Organizational Politics	De Nitish. Alternative Designs of Human Organizations. London, Sage, 1988.	2
	Empowerment	French, W L., etc. Organization Development Theory, Practice and Research. 3rd ed. New Delhi, Universal Book Stall, 1990	1
	Conflict	French, W L., etc. Organization Development Theory, Practice and Research. 3rd ed. New Delhi, Universal Book Stall, 1990	1
	Case Lets & Case Study	University Question Papers	2
Unit No - V	Organizational Effectiveness – Creativity and Innovation	Abad, Ahmad. Etc. Developing Effective Organization. New Delhi, Sri Ram Centre for Industrial Relations, 1980.	1
	Corporate Governance	French, W L., etc. Organization Development Theory, Practice and Research. 3rd ed. New Delhi, Universal Book Stall, 1990.	1
	Management of Gender Issues	French, W L., etc. Organization Development Theory, Practice and Research. 3rd ed. New Delhi, Universal Book Stall, 1990.	2
	Case Lets & Case Study	University Question Papers	2
Total Lectures required to Cover Syllabus			34


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 Department of Management Studies
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Department of Management Studies, PRMIT&R, Badnera-Amravati.

Lesson Plan Year 2021-2022

Subject: Principle and Practices of Management (101)

Subject Teacher: Prof. A.E.Kharad

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	The Concept of Management	T. Ramasamy, Principles of Management, 9 th edition, Himalaya Publishing House, Mumbai, 2009	1	Total Lectures for Unit I: 7
	2	Development of management thought-various, approaches		1	
	3	Mathematical, Behavioral, Scholastic schools of management and systems		1	
	4	Contingency approaches to Management		1	
	5	Contribution of Taylor		1	
	6	Contribution of Fayol & Elton Mayo		1	
	7	Case study		1	
II	1	The Nature and Purpose of Planning, Objectives of Planning,	T. Ramasamy, Principles of Management, 9 th edition, Himalaya Publishing House, Mumbai, 2009	2	Total Lectures for Unit II: 8
	2	Planning Premises, Policies, Procedures and Methods;		2	
	3	Forecasting and Planning, Planning Process,		2	
	4	The Process of Decision Making.		1	
	5	Case Study		1	
III	1	Organizing: Nature and Purpose of Internal Organization of Business Enterprise	Singh, Dalip Emotional Intelligence at Work, Response Books, Sage Publications, Delhi 2001. T. Ramasamy, Principles of Management, 9 th edition, Himalaya Publishing House, Mumbai, 2009	1	Total Lectures for Unit III: 8
	2	Principles of Organizing; Span of Management		1	
	3	Departmentation Line and Staff Authority relationship; Service departments		2	
	4	Centralization vs. Decentralization of authority; Delegation of Authority		2	
	5	Committees, Staffing		1	
	6	Case Study		1	
IV	1	Directing, Nature of Directing, Leadership Concept and Styles	T. Ramasamy, Principles of Management, 9 th edition, Himalaya Publishing House, Mumbai, 2009	2	Total Lectures for Unit IV: 7
	2	Motivation Concept, Theory: Maslow, Hertzberg, Supervision		2	
	3	Concept of Communication, Coordination; Need & Principles.		2	
	4	Case Study		1	
V	1	Control; Process of Control; Techniques and Tools	T. Ramasamy, Principles of Management, 9 th edition, Himalaya Publishing House, Mumbai, 2009	2	Total Lectures for Unit V: 6
	2	Management by objectives		1	
	3	Participative Management		1	
	4	Management by exception		1	
	5	Case Study		1	
			Total Lectures Required	36	

Department of Management Studies(M.B.A.)

Semester – (Session 2021-2022)

Subject: Quantitative Methods

SUBJECT TEACHER: Prof. K.S.Bijawe

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to Mathematical Derivatives	Business Statistics by S.P. Gupta and M.P.Gupta , Fundamentals of Operations Research Macmillan By Sharma.	1	Total Lectures for Unit I: 7
	2	Introduction to Quantitative Methods applications		2	
	3	importance, scope, limitations		2	
	4	Types		1	
	5	Revision		1	
II	1	Arithmetic Progression	Business Statistics by S.P. Gupta and M.P.Gupta , Fundamentals of Operations Research Macmillan By Sharma.	2	Total Lectures for Unit II: 8
	2	Geometric Progression		2	
	3	Harmonic Progression & their managerial application.		2	
	4	Determinants & Matrices		1	
	5	Revision		1	
III	1	Frequency Distribution & their analysis	Business Statistics by S.P. Gupta and M.P.Gupta , Fundamentals of Operations Research Macmillan By Sharma.	2	Total Lectures for Unit III: 7
	2	Measures of Central tendency		2	
	3	Measures of Dispersion.		2	
	4	Revision		1	
IV	1	Correlation & Regression analysis	Business Statistics by S.P. Gupta and M.P.Gupta , Fundamentals of Operations Research Macmillan By Sharma.	3	Total Lectures for Unit IV: 6
	2	Time series Analysis & forecasting		2	
	3	Revision		1	
V	1	Linear Programming: Formulation & Graphical solution method	Linear Programming and Decision Making By Narag, Business Statistics by S.P. Gupta and M.P.Gupta ,	2	Total Lectures for Unit V: 8
	2	Probability theory		2	
	3	types, distributions		2	
	4	Bi-nomial, Poisson & Normal		1	
	5	Revision		1	
Total Lectures Required:				36	

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P.R.M.I.T. & R. Badnera

Department of Management Studies
Semester –II (Session 2021-2022)
Subject: Business Environment
SUBJECT TEACHER: Prof. R.K.Dhanuka

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Concept, Nature and Scope of Business	Essentials of Business Environment by K. Aswathappa Business Environment by Fernando Pearson	1	Total Lectures for Unit I: 7
	2	Business Organization, Industry and Types		1	
	3	Economy-Industry-Company Interface-Case study		2	
	4	Relevant Environment		1	
	5	Case Study		2	
II	1	Business Environment- Introduction & Case study	Essentials of Business Environment by K. Aswathappa & Business Environment by Vivek Mittal & Francis Cherunilam, : Business Environment Text & Cases, Himalaya Publishing House	1	Total Lectures for Unit II: 7
	2	Detailing the Types of Environment		2	
	3	Controllable and Non Controllable		1	
	4	External and Internal Environment		1	
	5	Case Study		2	
III	1	Business & Society, Social Audit of Business	Essentials of Business Environment by K. Aswathappa & Business Environment by Fernando Pearson	2	Total Lectures for Unit III: 8
	2	Foreign Direct Investment		2	
	3	Economic Zones: SEZ, REZ, AEZ		2	
	4	Case Study		2	
IV	1	Business in Post LPG Scenario	Essentials of Business Environment by K. Aswathappa & Business Environment by Vivek Mittal & Francis Cherunilam, : Business Environment Text & Cases, Himalaya Publishing House	1	Total Lectures for Unit IV: 7
	2	Disinvestment		1	
	3	WTO Agreements		2	
	4	Business & Regional Blocks		1	
	5	Case Study		2	
V	1	Financial Sector Reforms	Essentials of Business Environment by K. Aswathappa & Business Environment by Vivek Mittal & Francis Cherunilam, : Business Environment Text & Cases, Himalaya Publishing House	1	Total Lectures for Unit V: 7
	2	Fiscal and Monetary Sector Reforms , ,		1	
	3	Economic Reforms		1	
	4	Social Justice		1	
	5	Business Environment Issues- Tourism and Hospitality Industry		1	
	6	Health Care and Knowledge Industry		1	
	7	Case Study		1	
Total Lectures Required:				36	


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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Lesson Plan

Subject: Financial Management

Semester –II (Session 2021-2012)

Subject Teacher: Prof. A.E.Kharad

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Financial Management-Aims & Objectives	Prasanna Chandra, “Financial Management- Theory and Practice”, Tata McGraw Hill 4th, 5th, 6th , 7th Ed	1	Total Lectures for Unit I: 08
	2	Financial Analysis Techniques		2	
	3	Financial control: Cost-Volume Profit Analysis		2	
	4	Financial control: Operating & Financial Leverage		2	
	5	Case study		1	
II	1	Investment & capital structure Decisions	Bhalla V.K.: Financial Management and Policy 2nd ed. New Delhi Anmol, 1998.	2	Total Lectures for Unit II: 07
	2	Optimum Capital structure		2	
	3	Time -value of money		2	
	4	Case Study		1	
III	1	Instruments of Short term Financing	Financial Management, 6th ed., Tata McGraw Hill Education Pvt. Ltd. 2012.	1	Total Lectures for Unit III: 06
	2	Instruments of Long term Financing		1	
	3	Cost of different sources of raising capital		2	
	4	Weighted Average cost of capital		1	
	5	Case Study		1	
IV	1	Valuations Bonds & Stocks	Prasanna Chandra, “Financial Management- Theory and Practice”, Tata McGraw Hill 4th, 5th, 6th , 7th Ed	2	Total Lectures for Unit IV: 8
	2	Rates of return		2	
	3	Methods of Capital Budgeting		2	
	4	Case Study		2	
V	1	Management and Estimation of Working Capital	Working Capital management. Dr. P.Periasamy, Himalaya Publication.	2	Total Lectures for Unit V: 7
	2	Internal Financing		1	
	3	Dividend Policy	Bhalla V.K.: Financial Management and Policy 2nd ed. New Delhi Anmol, 1998	2	
	5	Case Study		2	
Total Lectures Required				36	

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Department of Management Studies

Semester –II (Session 2021-2022)

Subject: Human Resource Management

Subject Teacher: Prof. M.M.Nistane

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	HRM Scenario and Acquisition of Human Resources	Human Resource Management:P.Subba Rao	2	
	2	HRM the global and Indian Scenario, excellence		1	
	3	Human resource planning.		1	
	4	Human resource information system..		1	
	5	Recruitment and selection strategies		1	
	6	Case Let		1	
		Total		7	
II	1	Developing Human Resources- HRD-Concept, Multiple Goals	Human Resource Management:P.Subba Rao	2	Page. No: 23-25, 115-121, 131-137, 180-186, 152-168,
	2	Functions And Organizational Effectiveness		1	
	3	Performance Appraisal System		1	
	4	Potential Appraisal System And Succession Planning		1	
	5	Career Planning And Development		1	
	6	Assessment And Development Centers , Training And Development.		1	
	7	Videos, Case Lets		1	
		Total		8	
III	1	Motivating Human Resources: Motivation At Work-Concept,	Human Resource Management:P.Subba Rao,	2	256-264, 393-397, 63-65,
	2	Objectives, Types And Applications		1	
	3	Participative Management-Approaches And Applications		1	
	4	Employee Empowerment-Concept, Nature,		2	
	5	Objectives, Schemes And Applications.		1	
	6	Case Lets		1	
		Total		8	
IV	1	Maintenance of Human Resources	Human Resource Management:P.Subba Rao,	2	201-208
	2	Reward System		1	
	3	Quality of Work Life		1	
	4	Organisation Development		1	
	5	Case Let		1	
				6	
IV	1	Human Resources and Knowledge Era	Human Resource Management:P.Subba Rao,	1	201-208
	2	Knowledge Creation and Management		1	
	3	Virtual Organizations and HR Trends		1	
	4	Learning Organizations		1	
	5	Strategic Human Resource Management		1	
	6	International HRM-some Key issues.		1	
	7	Case Let		1	
		Total		7	
		Schedule Lecture		36	

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**Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Management Studies(M.B.A.)**

**Lesson Plan
Subject: Logistic Management
Semester –II (Session 2021-2022)
Subject Teacher: Prof. G.D. Pachaghare**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to logistics	Christopher M, Logistics and Supply Chain Management: Strategies for Reducing Costs and Improving Services, London, Pitsman, 1992.	1	Total Lectures for Unit I: 6
	2	Logistics interface with Production and Marketing		1	
	3	Performance Measures of Logistics		2	
	4	Reverse Logistics		1	
	5	Case study		1	
II	1	Logistics and Distribution System	Shridhar Bhat, Logistics & Supply Chain Management, Pearson Education, 2009	1	Total Lectures for Unit II: 8
	2	Logistics System Analysis and Design		2	
	3	Warehousing and Distributing Centers		2	
	4	Channels Management-Policies		1	
	5	Information Systems		1	
	6	Case Study		1	
III	1	Location; Transportation Systems	Ballon Ronald, Business Logistics/ Supply Chain Management, Pearson Education	1	Total Lectures for Unit III: 9
	2	Transportation Management		3	
	3	Transportation Infrastructure Facilities and Services		2	
	4	Dispatch and Routing Decisions and Models		2	
	5	Case Study		1	
IV	1	Inventory Management Decisions	Shapiro, R., Logistics Strategy: Cases and Concepts, St. Paul, West, 1995.	2	Total Lectures for Unit IV: 5
	2	Logistics Audit and Control		1	
	3	Packaging and Logistical Materials Handling		1	
	4	Case Study		1	
V	1	International Logistic Management	Christopher M, Logistics and Supply Chain Management: Strategies for Reducing Costs and Improving Services, London, Pitsman, 1992.	2	Total Lectures for Unit V: 8
	2	Global Logistics: Barriers, Drivers		1	
	3	Global Logistics: Export & Import Documentation		2	
	4	Regional Integration		1	
	5	Logistic Outsourcing		1	
	6	Case Study		1	
Total Lectures Required				36	


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 Department of Management Studies
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Department of Management Studies Semester –II (Session 2021-2022)

Teaching Plan

Subject: Marketing Management.

Subject Teacher: Prof. A.V.Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Nature & Scope of Marketing	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Functions of Marketing Management		2	
	3	Marketing organisation		2	
	4	Corporate Orientation towards the Market Place		1	
	5	Marketing Environment & Environment Scanning		1	
	6	Case Study		1	
		Total Lectures		8	
II	1	Meaning & Significance of Marketing Planning	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Strategic Planning		2	
	3	Planning of Marketing Mix Elements		2	
	4	Market Segmentation		1	
	5	Positioning		1	
	6	Case Study		1	
		Total Lectures		8	
III	1	Product Decisions, Product Mix	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Product Life Cycle		2	
	3	New Product Development		1	
	4	Branding & Packaging Decisions		2	
	5	Pricing Model & Strategies		1	
	6	Case Study		1	
		Total Lectures		8	
IV	1	Physical Distribution Decisions & Targetting	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	2	
	2	Major Channels		1	
	3	Channels of Consume Product		1	
	4	Channels of Industrial Product		1	
	5	Case Study		1	
		Total Lectures		6	
V	1	Promotion Mix	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Advertising		1	
	3	Sales Promotions		1	
	4	Publicity & Personal Selling		1	
	5	Introduction to Marketing Research & its Significance		1	
	6	Case Study		1	
		Total Lectures		6	

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 Department of Management Studies
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Department of Management Studies(M.B.A.)
Semester – (Session 2021-2022)
Subject: Management Science
SUBJECT TEACHER: Prof. R.A.Kapadiya

Unit No.	Topic No.	Topics with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Basic Concept of Management Science	Budnik, Frank S. Dennis, Mcleavey, Richard Mojena Principles of Operations Research 2nd ed. Richard, Irwin, Illinois-All India Traveller Bookseller, New Delhi, 1995	2	Total Lectures for Unit I: 8
	2	Role of Management Science in Decision Making-		2	
	3	Decision Theory		2	
	4	Decision Tree		2	
II	1	Integer Linear Programming	Sharma J.K. Operations Research: Theory and Applications New Delhi, Macmillan India Ltd. 1997	2	Total Lectures for Unit II: 6
	2	Branch & Bound Algorithm		2	
	3	Sensitivity Analysis		2	
III	1	Transportation Model	Sharma J.K. Operations Research: Theory and Applications New Delhi, Macmillan India Ltd. 1997	3	Total Lectures for Unit III: 7
	2	Assignment Model		4	
IV	1	Network Analysis-Pert	Sharma J.K. Operations Research: Theory and Applications New Delhi, Macmillan India Ltd. 1997	4	Total Lectures for Unit IV: 8
	2	Network Analysis-CPM		4	
V	1	Markov Chain Analysis-I	Budnik, Frank S. Dennis, Mcleavey, Richard Mojena Principles of Operations Research 2nd ed. Richard, Irwin, Illinois-All India Traveller Bookseller, New Delhi, 1995,	2	Total Lectures for Unit V: 7
	2	Game Theory		3	
	3	Simulation-I		2	
Total Lectures Required:					36


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Department of Management Studies

Semester –II (Session 2021-2022)

Teaching Plan

Subject: Production & Operations Management
R.A.Kapdia

Subject Teacher:Prof.

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1.	Nature & scope of Production & Operations Management.	Chary S.N. , Adam & Ebert R.S. Goel Scholarly articles;	2	
	2.	Facility Location, Types of Manufacturing Systems		2	
	3.	Plant Layout; Types, Planning & Analysis		1	
	4.	Case Study			
II	1.	Production Planning & Control; Objectives, Functions, Production Planning, Production Control, Role of PPC.	M. Mahajan R.S Goel Chary S.N. ; Scholarly articles;	3	
	2.	Production Scheduling		2	
	3.	Industrial Safety		1	
	4.	Case Study		1	
	5.	Case Study			
III	1.	Capacity planning- Measures, strategies, Aggregate Planning, Quality assurance, Quality control,	Martand Telsang Chary S.N.; Mahajan	3	
	2.	Statistical quality control- concept & types of control charts.		2	
	3.	TQM- ISO 9000, Quality circles.		2	
	4.	Case Study		1	
IV	1.	Work Study: Importance, scope, work content, method study- steps, data recording techniques, motion economy.	Martand Telsang M. Mahajan	2	
	2.	Work measurement- Scope, computation of standard time, work sampling.		2	
	3.	Maintenance management- Objectives, scope, types of maintenance, maintenance organization		2	
	4.	Case Study		1	
V	1.	Materials Handling- Principles, types of material handling equipment & their applications, Purchase management, Stores management.	Chunawalla R.S. Goel Adam & Ebert	3	
	2.	Inventory control- objectives, scope, inventory models & their applications.		3	
	3.	Case Study		1	

Note: No of available session are 36 & include at least one case study in each unit

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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies
Semester –II (Session 2021-2022)
Subject: Research Methodology
SUBJECT TEACHER: Prof. P. A. Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to research methodology	Research Methodology By Dr. S.L. Gupta & Hitesh Gupta Business Research Methodology J.K. Sachdeva	1	7
	2	Research and Scientific Method		1	
	3	Nature and Scope of research methodology		1	
	4	Problem & Hypothesis formulation		1	
	5	Research objectives		1	
	6	Value & cost of information		1	
	7	Case study/Numerical		1	
II	1	Organisation structure for research	Research Methodology By Dr. S.L. Gupta & Hitesh Gupta Research Methodology By C.R. Kothari	1	7
	2	Research process		2	
	3	exploratory research, descriptive & experimental research design		2	
	4	Research Agencies- Government and Non Government		1	
	5	Case study/Numerical		1	
III	1	Data-Types of Data	Research Methodology By C.R. Kothari Business Research Methodology J.K. Sachdeva	1	7
	2	Methods of primary data collection, observation, questionnaire, interview, survey method		1	
	3	Modern tools of data collection		1	
	4	Schedules, tabulation, analysis and interpretation of primary data		2	
	5	Case study/Numerical		2	
IV	1	Attitude measurement Techniques	Research Methodology By Dr. S.L. Gupta & Hitesh Gupta Business Research Methodology J.K. Sachdeva	1	6
	2	Motivational Research Techniques.		1	
	3	Sample Design		1	
	4	Selection of Appropriate Statistical Techniques.		1	
	5	Case study/Numerical		2	
V	1	Testing of Hypothesis	Business Research Methods By Naval Bajpai Research Methodology By C.R. Kothari	2	8
	2	Use of Statistical software		1	
	3	Factor analysis		1	
	4	conjoint analysis		1	
	5	Regression analysis,		1	
	6	Qualities of optimally viable research report		1	
	7	Case study/Numerical		1	
			TOTAL:36		


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Department of Management Studies

Odd-Semester – III (Session 2021-22)-Teaching Plan

Subject Teacher:Prof.G.S.Kalmegh **Subject: BS (108)**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted
I	1	Banking system in India-Indigenous Bankers, Commercial Banks, Co-operative Banks,	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	1
	2	Regional Rural Banks-Private Sector Banks, Foreign Banks, Merchant Banking,		1
	3	Banking Sector Reforms, Primary, Secondary and Subsidiary		2
	4	Functions of Banks, Banking Innovation, Globalization of Indian Banking Sector, Banking in New Millennium.		2
		Total		07
II	1.	Banking Regulation-Banking business, Capital requirement, management, licensing, new branches, loans and advances,	Vasant Desai, Bank Management, Himalaya Publishing House.	3
	2.	NPA'S, Acquisition of Business,		2
	3.	Winding up and Amalgamation, major issues of banking, Bank Management.		2
		Total		07
III	1.	Central Banking: Concept and Meaning, Major Central Banks,	S. Gurusamy, "Banking Theory: Law and Practices," Tata McGraw Hill 2 nd Ed., 2009.	2
	2.	Reserve Bank of India, it's role and functions,		1
	3.	Banking Regulation by RBI, RBI & Agricultural Credit,		1
	4.	Industrial Finance and Bill Market System.		2
		Total		07
IV	1.	Commercial Banking: Concept and Scope, Commercial Banking	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	2
	2.	Risk Management		2
	3.	Functions and Services of Commercial Banks,		1
	4.	Credit Management, Installation and Significance of Sound Credit Culture		3
		Total		08
V	1.	Upcoming Issues in Banking, Customer Services, CRM,	Vasant Desai, Bank Management, Himalaya Publishing House.	3
	2.	Human Resource Management,		1
	3.	Financial Management,		1
	4.	Marketing Management of banking services, New Trend in Banking		2
		Total		06

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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies**Semester** –III (Session 2021-2022)**Subject:** MBA/301 BUSINESS LAW**SUBJECT TEACHER:** Prof. P. A. Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	The Indian Contracts Act 1872; Essentials of a valid contract	Business Law- S S Gulshan	1	Total Lectures for Unit I: 8
	2	Void agreements - cases	Business Law- S. N. Maheshwari	2	
	3	Performance of contract	Mercantile Law- N. D. Kapoor	2	
	4	Breach of contract and its remedies	ICAI Notes	1	
	5	Quasi contracts – condition with cases		1	
	6	Case Study		1	
II	1	The sale of Goods Act 1930 introduction	Business Law- S S Gulshan	1	Total Lectures for Unit II: 7
	2	Essential features-sale & agreement	Business Law- S. N. Maheshwari	1	
	3	Types of goods-condition & warranty-cases	Mercantile Law- N. D. Kapoor	2	
	4	Passing of property & Formation of Contract		1	
	5	Rights of an unpaid seller		1	
	6	Case Study		1	
III	1	The Negotiable Instruments Act 1881: Nature of negotiable instruments,	Business Law- S S Gulshan	2	Total Lectures for Unit III: 7
	2	Type of negotiable instruments	Business Law- S. N. Maheshwari	1	
	3	Negotiation and assignment, Holder in due course	Mercantile Law- N. D. Kapoor	1	
	4	Dishonor and discharge of negotiable instrument	ICAI Notes	2	
	5	Case Study		1	
IV	1	The Companies Act 1956: Nature And Type Of Companies	Business Law- S S Gulshan	2	Total Lectures for Unit IV: 7
	2	Formation of companies	Business Law- S. N. Maheshwari	1	
	3	Memorandum and Article of Association	Mercantile Law- N. D. Kapoor	1	
	4	Winding up of companies-Cases		2	
	5	Case Study		1	
V	1	An overview of Consumer Protection Act 1986	Business Law- S S Gulshan	2	Total Lectures for Unit V: 7
	2	IT Act 2000	Business Law- S. N. Maheshwari	1	
	3	Cyber laws with specific reference to e-commerce	Mercantile Law- N. D. Kapoor	1	
	4	Intellectual Property Law		1	
	5	Patents and copyright.		1	
	6	Case Study		1	
Total Lectures Required: 36					

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Department of Management Studies
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Lesson Plan

Subject: International Financial Management

Semester –IIIrd (Session 2021-2022)

Subject Teacher: Prof. G.D. Pachaghare

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Multinational Financial Management - An overview	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	2	Total Lectures for Unit I: 5
	2	Evolution of the International Monetary and Financial System.		2	
	3	Case study		1	
II	1	Managing short-term assets and liabilities	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	2	Total Lectures for Unit II: 8
	2	Long-term Financing		1	
	3	Long-run Investment Decisions		2	
	4	The foreign Investment Decision.		2	
	5	Case Study		1	
III	1	Cost of Debt, Cost of Capital,	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	3	Total Lectures for Unit III: 7
	2	Weighted Average Cost of Capital		1	
	3	Capital Structure of the Multinational Firm.		2	
	4	Case Study		1	
IV	1	Multinational Capital Budgeting Application and Interpretation	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	2	Total Lectures for Unit IV: 8
	2	Dividend Policy of the Multinational Firm		2	
	3	Taxation of the Multinational Firm		2	
	4	Case Study		2	
V	1	Analysis of Country Level Risk	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	2	Total Lectures for Unit V: 8
	2	Political Risk Management		2	
	3	Foreign Exchange Operating Exposure		1	
	4	Debt and Foreign Exchange Exposure		2	
	5	Case Study		1	
Total Lectures Required				36	


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Department of Management Studies

Semester –III (Session 2021-2022)

Teaching Plan

Subject: Indian Financial System

Subject Teacher: Prof. R.A.Kapdiya

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Structure of Indian financial system	Vasant Desai :- Fundamentals Indian financial system HPH	02	
	2	Functions of Indian financial system		01	
	3	Economic development and major issues in IFS		01	
	4	Saving Investment and capital accumulation		01	
	5	Case study		01	
Total Lecture				06	
II	1	Working of financial Markets	Bharti V Pathak :- Indian financial system Markets, Institutions and Services Pearson Education	01	
	2	Trends of Money Market		01	
	3	Capital Market		02	
	4	Debt Market	01		
	5	Bill Market	01		
	6	Foreign Exchange Market	01		
	7	Case study	01		
Total Lecture				08	
III	01	Role and significance of stock exchanges	Bharti V Pathak :- Indian financial	01	

	02	NSE	system Markets, Institutions and Services Pearson Education M Vora :- Indian financial system Anmol Publications.	02	
	03	BSE		02	
	04	Discount and finance house of India and OTC		01	
	05	SEBI		01	
	06	Case study		01	
Total Lecture				08	
IV	01	Working and function of RBI	Bharti V Pathak:- Indian financial system Markets, Institutions and Services Pearson Education M Y Khan:- Indian financial system Tata McGraw Hill.	01	
	02	Commercial banking		01	
	03	Non –banking financial institutions and companies		01	
	04	Development bank		01	
	05	Life insurance		02	
	06	General insurance		01	
	07	Case Study		01	
Total Lecture				08	
V	01	Features and importance of treasury bills	Bharti V Pathak:- Indian financial system Markets, Institutions and Services Pearson Education Vasant Desai.:- Fundamentals Indian financial system HPH	01	
	02	Certificates of deposits		01	
	03	Commercial paper		01	
	04	Hawala		01	
	05	Case study		01	
Total Lecture				05	


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Department of Management Studies**Semester –III (Session 2021-2022)****Teaching Plan****Subject: Investment Science****Subject Teacher: Prof. K. S. Bijawe**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Investment - Introduction , Significance	Preeti Singh, Investment Management, Himalaya Publishing House.	01	
	02	Saving , Investment , Gambling		01	
	03	Meaning , Objectives, and significance & Mechanism of Investment		01	
	04	Issue and dilemmas of investment		01	
	05	Investment option and opportunities		01	
	06	Investment risk and return		01	
	07	Indian Investment Scenario		01	
	08	Case Study and Situation		01	
Total Lecture				08	
II	01	Financial Market	Preeti Singh, Investment Management, Himalaya Publishing House.	01	
	02	Financial Market and Intermediaries		01	
	03	Money Market		01	
	04	Stock Market Function		01	
	05	Stock Market Indices		01	
	06	Stock Market and Economic Scenario		01	
	07	Case Study , Situation		01	
Total Lecture				07	
III	01	Theory of Interest	Preeti Singh, Investment Management,	01	
	02	Time Value Consideration		01	

	03	Evaluation of Investment of opportunities	Himalaya Publishing House.	01	
	04	NPV		01	
	05	IRR		01	
	06	NPV Vs IRR		01	
Total Lecture				06	
IV	01	Investment Valuation	Preeti Singh, Investment Management, Himalaya Publishing House.	01	
	02	Valuation of Debt securities		01	
	03	Bond Valuation		01	
	04	YTM		02	
	05	Valuation of Debenture		01	
	06	Tax Consideration in Investment		01	
Total Lecture				07	
V	01	Valuation of Share Investment	David G. Luenberger, Investment Science, Oxford University Press.	01	
	02	Valuation of Preference Share		01	
	03	Valuation of Equity Share		02	
	04	Dividend Valuation Model		02	
	05	Case Study		01	
Total Lecture				07	


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Department of Management Studies

Semester –III (Session 2021-2022)

Teaching Plan

Subject: Risk Management

Subject Teacher: Prof. A.E.Kharad

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Risk - Meaning, Definition and Significance	Anthony Sounders, Merica Cornett, "Financial Institutions Management:- A Risk Management Approach" Tata McGraw Hill.	01	
	02	Risk Management		01	
	03	Impact of Risk on Organization		01	
	04	Types of Risk		01	
	05	Development of Risk Management		01	
	06	Risk Management , Principal , objectives and standards and policy		01	
	07	Risk Management Documentation and responsibility		01	
	08	Case study		01	
Total Lecture				08	
II	01	Risk Assessment	Anthony Sounders, Merica Cornett, "Financial Institutions Management:- A Risk Management Approach" Tata McGraw Hill.	01	
	02	Risk architecture and structure		01	
	03	Risk-aware culture , risk training and communication		01	
	04	Risk assessment consideration		01	
	05	Risk classification system		01	
	06	Risk likelihood and impact, upside of risk		01	
	07	Case study		01	
Total Lecture				07	
III	01	Risk and organization		01	
	02	Corporate Governance Model	Anthony	01	

	03	Stakeholder expectations, analysis of the business model	Sounders, Merica Cornett, "Financial Institutions Management:- A Risk Management Approach" Tata McGraw Hill.	01	
	04	Project and operational risk Management		01	
	05	Supply Chain Management		01	
	06	Case study		01	
Total Lecture				06	
IV	01	Risk response, enterprise risk management	Anthony Sounders, Merica Cornett, "Financial Institutions Management:- A Risk Management Approach" Tata McGraw Hill.	01	
	02	Importance of risk appetitive		01	
	03	Tolerate, Treat, Transfer and Terminate		01	
	04	Risk control Techniques		01	
	05	Control of selected hazard risks,		01	
	06	Insurance and risk transfer		01	
	07	Case Study , situation		01	
Total Lecture				07	
V	01	Risk assurance and reporting	Anthony Sounders, Merica Cornett, "Financial Institutions Management:- A Risk Management Approach" Tata McGraw Hill.	01	
	02	Evaluation of the control environment		01	
	03	Activities of the internal audit function		01	
	04	Risk assurance techniques		01	
	05	Reporting of risk management		01	
	06	Corporate social responsibility and Future of Risk Management		01	
	07	Case study		01	
Total Lecture				07	

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Lesson Plan

Subject: Working Capital Management

Semester -IIIrd (Session 2021-2022)

Subject Teacher: Prof. R.A.Kapdiya

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Concept of Working Capital Management	Bhalla, V.K., Working Capital Management: Text and Cases, 4th ed., Delhi, Anmol, 2001.	1	Total Lectures for Unit I: 8
	2	Importance of Working Capital, Kinds of Working Capital		1	
	3	Factors Determining Working Capital, Estimating Working Capital Requirements		3	
	4	Operating Cycle		1	
	5	Case study		2	
II	1	Management of Cash-Motives for Holding Cash and marketable securities	Bhalla, V.K., Working Capital Management: Text and Cases, 4th ed., Delhi, Anmol, 2001.	2	Total Lectures for Unit II: 6
	2	Cash System		1	
	3	Managing the Cash Flows		2	
	4	Case Study		1	
III	1	Managing Corporate Liquidity and Financial Flexibility	Bhalla, V.K., Working Capital Management: Text and Cases, 4th ed., Delhi, Anmol, 2001.	2	Total Lectures for Unit III: 7
	2	Measures of Liquidity		1	
	3	Determining the Optimum Level of Cash Balances - Baumol Model		2	
	4	Benanek Model		1	
	5	Case Study		1	
IV	1	Inventory Management-Kinds of Inventories	Bhalla, V.K., Working Capital Management: Text and Cases, 4th ed., Delhi, Anmol, 2001.	1	Total Lectures for Unit IV: 8
	2	Benefits and Cost of holding Inventories		2	
	3	Inventory Management and Valuation		2	
	4	Inventory Control Models		2	
	5	Case Study		1	
V	1	Receivables Management, Objectives	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol 2001.	2	Total Lectures for Unit V: 7
	2	Credit Policies		2	
	3	Credit Terms and Collection Policies		2	
	4	Case Study		1	
			Total Lectures Required	36	


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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Department of Management Studies				
Semester –III (Session 2021-2022)				
Lesson Plan				
Subject: Compensation Management			Teacher: Yuvaraj Vaidya	
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted
I	1	Compensation Management: Concept	Compensation Management by Dr Kanchan Bhatia	2
	2	Components	Compensation by G. Milkovich, J. Newman & C Ratnam	1
	3	Theories	Compensation Management by Dr Kanchan Bhatia	1
	4	Reward Management	Compensation Management by Dr Kanchan Bhatia	2
	5	Case Study	University Question Papers	1
II	6	Diagnosis of compensation problem	Compensation Management by Dr Kanchan Bhatia	2
	7	Meaning and necessity of Benchmarking	Compensation Management by Dr Kanchan Bhatia	2
	8	commitments	Salary and wages Administration	1
	9	Internal & external equity in compensation system	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	10	Case study	University Question Papers	1
III	11	Compensation Packages	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	12	Tools in Designing Compensation Packages	Compensation by G. Milkovich, J. Newman & C Ratnam	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	Compensation by G. Milkovich, J. Newman	2

		Compensations Packages	& C Ratnam	
	16	Case Study	University Question Papers	1
IV	17	Components of compensation	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	18	Fringe Benefits	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	19	Incentives	Compensation by G. Milkovich, J. Newman & C Ratnam	1
	20	Retirement Benefits	Compensation Management by Dr Kanchan Bhatia	1
	21	Case Study	University Question Papers	1
V	22	Strategic Compensation System	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	23	compensation practices of public limited	Compensation by G. Milkovich, J. Newman & C Ratnam	1
	24	compensation practices of institutional	Salary and wages Administration	1
	25	corporate & public sector companies.	Compensation by G. Milkovich, J. Newman & C Ratnam	2
	26	Case Study	University Question Papers	1


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Department of Management Studies - Semester –III (Session 2021-2022) - Teaching Plan

Subject: HR-3304/ Human Resource Development

Subject Teacher: Prof. Minal M.Nistane.

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1.	HRD- Concept & Goals	1. HRD - BY Rao T.V.	01	
	2.	Challenges (A Case of video Challenges)		01	
	3.	Climate (Videocon)	2. HRD –Dr.Lalitha	01	
	4.	Practices in India (Practical Ex.of Patanajali)	Balakrishnan,S Srividhya	01	
	5.	Learning and HRD		01	
	6.	Case Study	3. HRD – By P. Subba Rao	02	
		Total		07	
II	1.	HRD System Design	1. HRD - BY Rao T.V.	01	
	2.	Assessing HRD Needs		01	
	3.	Designing & Implementing HRD Programs	2. HRD –Dr.Lalitha	01	
	4.	Case Let	Balakrishnan,S Srividhya	01	
	5.	Evaluating HRD Program (Ex. Wipro co.)		01	
	6.	Case Let		01	
	7.	Staffing & HRD Function	3. HRD – By P. Subba Rao	01	
	8.	Case Let		01	
		Total		08	
IV	1.	Career Management Development	1. HRD - BY Rao T.V.	01	
	2.	Concept, Objectives	2. HRD – By Werner	01	
	3.	Relevance & Process	Desimone	01	
	4.	Case Let	3. HRD – By P. Subba Rao	01	
	5.	Career & Succession Planning (Ex. Google)		01	
	6.	Case Let		01	
	7.	Post Retirement Planning		01	
		Total		07	
III	1.	HRD Strategies for Employee (Introduction)	1. HRD – By Werner	02	
	2.	Case Let	Desimone	01	
	3.	Employee Socialization & Orientation	2. HRD – By P. Subba Rao	01	
	4.	Case Let		01	
	5.	HRD Intervention		01	
		Total		06	
V	1.	Counseling	1. HRD - BY Rao T.V.	01	
	2.	Coaching	2. HRD –Dr.Lalitha	01	
	3.	Mentoring & Performance Mgt.	Balakrishnan,S Srividhya	01	
	4.	HRD & Organizational Change		01	
	5.	HRD & Diversity in Work Force	3. HRD – By P. Subba Rao	01	
	6.	HRD Audit & Accounting		01	
	7.	Case Study - 2		02	
		Total		08	
		Total Lectures		36	


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Department of Management Studies				
Semester – III (Session 2021-2022)				
Lesson Plan				
Subject – Human Relations & Legal Framework			Teacher: Y R Vaidya	
Unit No.	Topic No	Topic	Text and References	No. of Periods Allotted
I	1	Labour Laws Introduction	http://www.lawyersclubindia.com/articles/Brief-Overview-of-Labour-Laws-in-India-6040.asp#.Vad9S19Viko	2
	2	Objectives & Importance of Labour Laws	http://www.yourarticlelibrary.com/law/necessity-and-importance-of-labour-law-and-principles/34381/	2
	3	Socio Economic Environment of Labor Laws	http://dyuthi.cusat.ac.in/xmlui/bitstream/handle/purl/2788/Dyuthi-T0809.pdf?sequence=1	1
	4	(Case Study)	University Question Papers	1
II	5	Laws Relating to Industrial Disputes	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	6	Trade Union	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	7	Standing Orders	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	8	Law Relating to Discharge	http://www.lawteacher.net/free-law-essays/employment-law/misconduct-as-a-ground-for-ermination-of-employment-law-essay.php	1
	9	Misconduct	http://www.lawteacher.net/free-law-essays/employment-law/misconduct-as-a-ground-for-ermination-of-employment-law-essay.php	1
	10	Domestic Enquiry – Disciplinary Action	http://www.lawyersclubindia.com/articles/Disciplinary-Actions-4743.asp#.Vad_bF9Viko	2
	11	(Case Study)	University Question Papers	1
III	12	Laws Relating to	Legal Aspectes of Business, R S Pillai & Bhagvathi	2

		Workmen Compensati on		
	13	Employee State Insurance Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	14	Provident Fund	http://www.legalissuesforngos.org/main/other/EPF.pdf	1
	15	The Payment of Gratuity Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	16	Maternity Benefits Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	17	(Case Study)	University Question Papers	1
IV	18	The Law of Minimum Wages	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	19	Payment of Wages	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	20	Payment of Bonus.	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	21	(Case study)	University Question Papers	1
V	22	The Laws Relating to Factories	Legal Aspectes of Business, R S Pillai & Bhagvathi	5
	23	Contract Labor Act. 1970	http://ncw.nic.in/fmReportLaws33.aspx	1
	24	(Case Study)	University Question Papers	1


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Department of Management Studies - Semester –III (Session 2021-2022)

Teaching Plan

Subject: HR-3301/ Management of Industrial Relations

Subject Teacher: Prof. Minal M.Nistane.

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1.	IR Introduction (Durga Steel Plant)	1. Industrial Relation- By C.S.Venkata Ratnam	01	
	2.	Industrial Relations Perspectives		01	
	3.	Importance of IR	2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.	01	
	4.	Socio Economic Conditions		01	
	5.	IR & Socio Economic Scenario –I	Sinha,Indu bala	01	
	6.	IR & Socio Economic Scenario –II	Sinha, Seema P.Shekhar	01	
	7.	IR & State, Case Study		01	
		Total		07	
II	1.	Role of Trade Union	1. Industrial Relation- By C.S.Venkata Ratnam	01	
	2.	Future of Trade Unions		01	
	3.	Employee Perspectives	2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.	01	
	4.	Trade Union & Employees (Maruti Suzuki)		01	
	5.	Trade Union & Management	Sinha,Indu bala	01	
	6.	Trade Union & Management	Sinha, Seema P.Shekhar	01	
	7.	Role Of Management		01	
	8.	Trade Union in MNC's. Case Let (Video on strike)		01	
		Total		08	
III	1.	Grievance Discipline	1. Industrial Relation- By C.S.Venkata Ratnam	01	
	2.	Grievance Conflicts,		01	
	3.	Grievance Dispute	2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.	01	
	4.	Grievance Management,		01	
	5.	Negotiation	Sinha,Indu bala	01	
	6.	Collective Settlements.	Sinha, Seema P.Shekhar	01	
	7.	Case Let		01	
		Total		07	
IV	1.	Participative Management	1. Industrial Relation- By C.S.Venkata Ratnam	01	
	2.	Techniques Scope And Importance		02	
	3.	Co-Ownership	2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.	01	
	4.	Productive Bargaining – I		01	
	5.	Productive Bargaining - II	Sinha,Indu bala	01	
	6.	Case Study	Sinha, Seema P.Shekhar	01	
		Total		07	
V	1.	IR , Employees Empowerment - I	1. Industrial Relation- By C.S.Venkata Ratnam	01	
	2.	Employee Empowerment - II		01	
	3.	Quality Circles,	2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N.	01	
	4.	IR & Technological Change,		01	
	5.	Conciliation arbitrations	Sinha,Indu bala	01	
	6.	adjudication	Sinha, Seema P.Shekhar	01	
	7.	Role of labour administration. Case Study		01	
		Total		07	
		Total Lectures		36	

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Department of Management Studies

Odd-Semester – III (Session 2021-22)-Teaching Plan

Subject Teacher: Prof.S. R. Deshmukh

Subject: MTD

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Training – a change agent, Video	"Training & Development Methods" by Dr. Rishipal & Scholary Articles	2	
	2	Training Environment		1	
	3	Pre – Training module-Formats		1	
	4	Counseling for Training,		1	
	5	Training Costs		1	
	6	Training Investment		1	
	7	Case Study		1	
		Total		08	
II	1.	Training Functions, Training Needs Assessment	"Training & Development Methods" by Dr. Rishipal & Lynton and Pareek	2	
	2.	Action Research-Module		2	
	3.	Organizational Objectives and Training		2	
	4.	Case Study		1	
		Total		07	
III	1.	Introduction of Learning & Learning Process	"Training & Development Methods" by Dr. Rishipal	2	
	2.	Organizational Training Climate		2	
	3.	Development and Designing Training Modules		2	
	4.	Formats of training Sheet,		1	
	5	Case Study		1	
		Total		07	
IV	1.	Training Methods	"Training & Development Methods" by Dr. Rishipal & Scholary Articles	2	
	2.	Techniques & Pedagogy		2	
	3.	Training aids & Tools		1	
	4.	Facilities for Training		1	
	5	Case Let's		1	
		Total		07	
V	1.	Training Feedback	"Training & Development Methods" by Dr. Rishipal & Journals	2	
	2.	Evaluation Training Audit		2	
	3.	Training as Continuous Process		2	
	4.	Case Study		1	
		Total		07	36


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Department of Management Studies
Semester –III (Session 2021-2022)
Subject: MBA/3306/H Performance Management
SUBJECT TEACHER: Prof. P. A. Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Overview of HRM Capital and performance appraisal,	Performance Management- A.S. Kohli, T. Deb Human Resource Management – P Subba Rao	2	Total Lectures for Unit I: 7
	2	Evolution of concept of performance management		1	
	3	Concept and perspectives of performance management		2	
	4	Meaning, Nature and scope of Performance Management.		1	
	5	Case Study		1	
II	1	Principles and Models of Performance Management,	Performance Management- A.S. Kohli, T. Deb Performance Management-A M Sharma	2	Total Lectures for Unit II: 7
	2	Imperatives, Antecedents, determinants and elements of performance management		2	
	3	Challenges to performance management		1	
	4	Case Study		2	
III	1	Performance Management System: Concept, Nature, Objectives, Functions	Performance Management- A.S. Kohli, T. Deb Performance Management-A M Sharma	2	Total Lectures for Unit III: 7
	2	Effective performance management system		2	
	3	Competency based performance management System and recent developments		1	
	4	Performance Counseling-Concept, Principles and Skills.		1	
	5	Case Study		1	
IV	1	Performance Management Process: Performance Planning-Definition, Objectives, characteristics and process.	Performance Management- A.S. Kohli, T. Deb Performance Management-A M Sharma	1	Total Lectures for Unit IV: 8
	2	Performance Management Plan		1	
	3	Competency Mapping- Methods and Applications, Linkages to performance planning. Process of performance managing		2	
	4	Performance Appraisal-Meaning, Principles, Process, Effective Design		1	
	5	Performance Monitoring: Definition, Characteristics, Objectives, Process and Practices.		1	
	6	Mentoring-Concepts and Applications & Performance Management Audit.		1	
	7	Case Study		1	
V	1	Performance Management Implementation: Bottlenecks, Strategies, Operationalization.	Performance Management- A.S. Kohli, T. Deb Performance Management-A M Sharma	1	Total Lectures for Unit V: 7
	2	Performance Management Link Reward System- Objectives, components, job performance with job satisfaction		2	
	3	High performance teams. HR, Ethics and Performance Management		1	
	4	Role of HR in Performance Management		1	
	5	Ethics and Performance Management.		1	
	6	Case Study		1	
Total Lectures Required: 36					


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PRMIT&R**Department of Management Studies(MBA)****Session Plan 2021-2022****Advertising Management****Subject Teacher: Prof. Rajkumar K Dhanuka**

Unit No	Topic	Reference Book	Estimated Lectures
Unit No - I	Nature, Type & Functions	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)	1
	Scope and Role of Advertising in Market Place	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)	1
	Economic Aspects of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)	1
	Ethical and Social Aspects of Advertising	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Presss)	2
	Case Lets & Case Study	University Question Papers	2
Unit No - II	Marketing Communication	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	1
	Process of Communication & its flow	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	1
	Types of Communication Systems	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	1
	Models Advertising Effect Models	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	2
	Case Lets & Case Study	University Question Papers	2
Unit No - III	Advertising Planning & Objectives	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	1
	DAGMAR Approach	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Building of Advertising Program –	Advertising fourth edition	2

	Message, Headlines, Copy, Logo, Illustration, Appeals, Layout	By: -Frank Jefkins (Pearson Publication)	
	Case Lets & Case Study	University Question Papers	2
Unit No - IV	Media Planning & Strategies	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Media Buying – Broadcast & Print	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	2
	Advertising Budget -Allocation	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Advertising Budget – Approaches	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Advertising Budget –Influencing Factors	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Case Lets & Case Study	University Question Papers	2
Unit No - V	Advertising Campaign Planning	S A Chunawalla & K C Sethia , <i>Advertising Theory and Practice</i> , 7th ed., 2002, Himalaya Publishing House	1
	Advertising Organization – Selection	Advertising Management By: - Jayashri Jethwaney & Shruti Jain (Oxford university Press)	1
	Compensation & Appraisal of Advertising Agencies	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	2
	Web Advertising	Advertising fourth edition By: -Frank Jefkins (Pearson Publication)	1
	Case Lets & Case Study	University Question Papers	2
Total Lectures required to Cover Syllabus			35


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Department of Management Studies
Semester –III (Session 2021-2022)
Teaching Plan

Subject: Agro Business Management

Subject Teacher: Prof. G. D. Pachaghare

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	a)	Agricultural, Allied Products.	*Agricultural	01	
	b)	Agro Processed Products.	Marketing in	01	
	c)	Agro Processed Products status in Indian Market.	India – S.S.	02	
	d)	Emerging Issues in the business Agriculture Produces.	Acharya and N L Agarwal –	02	
	e)	CASE STUDY	Oxford & IBH Publishing Co. Pvt. Ltd. Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhave	07
II	a)	Agriculture Marketing: Concept.	*Agricultural	02	
	b)	Definition & Scope.	Marketing in	01	
	c)	Objectives.	India – S.S.	01	
	d)	Upcoming Practices in Agriculture Marketing.	Acharya and N L Agarwal –	02	
	e)	CASE STUDY	Oxford & IBH Publishing Co. Pvt. Ltd. Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhave	07

III	a)	Agribusiness-Emerging Branches.	*Agricultural Marketing in	02	
	b)	Non Conventional Forms of Agribusiness.	India – S.S. Acharya and N	02	
	c)	Retailing & Merchandising of Agri Produces.	L Agarwal – Oxford & IBH	01	
	d)	Export Potential for farm products-Supporting Services.	Publishing Co. Pvt. Ltd.	02	
	e)	CASE STUDY	Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhawe	08
IV	a)	Role of Agencies for promotion of Exports of Agri Products.	*Agricultural Marketing in	02	
	b)	Role of Agencies for marketing of Agri Products.	India – S.S. Acharya and N	02	
	c)	Standards of Agriculture Produces.	L Agarwal – Oxford & IBH	02	
	d)	Organized Retailing in Agri Inputs and Outputs.	Publishing Co. Pvt. Ltd.	01	
	e)	CASE STUDY	Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhawe	08

V	a)	Marketing Mix of Agriculture Products.	*Agricultural Marketing in	02	
	b)	Role of Information and Communication Technology in Agriculture Marketing.	India – S.S. Acharya and N L Agarwal –	02	
	c)	CASE STUDY	Oxford & IBH Publishing Co. Pvt. Ltd. Calcutta.	01	
		TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhawe	05	

Note: No of available session are 35 & include at least one case study in each unit


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Department of Management Studies
Semester –III (Session 2021-2022)
Subject: Brand Management
SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
1	1	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	Brand Evolution		2	
	3	Brand Hierarchy		2	
	4	Brand Identity, Brand Image		2	
	5	Caselet on Brand Image		1	
2	1	Brand Peronsonality	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	1	Total Lectures for Unit II:8
	2	Brand Positioning & Repositioning		2	
	3	Brand Equity		2	
	4	Types of Branding- Product, Line, Range, Umbrella & Endorsement Branding		2	
	5	Caselet on Brand Portfolio		1	
3	1	Brand Creation	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	2	Total Lectures for Unit III:8
	2	Brand product Relationship		2	
	3	Brand Portfolio		1	
	4	Brand Elimination		1	
	5	Brand Revitalisation		1	
	6	Caselet on Brand Product Relationship		1	
4	1	Managing Brands	Chunawala S.A., Brand Management; U.C. Mathur, Brand Management; Harsh Verma- Brand Management	2	Total Lectures for Unit IV:6
	2	Brand Extensions		2	
	3	Financial Aspects of Brands		1	
	4	Caselet on Brand extension		1	
5	1	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	Branding in Services		1	
	3	Branding in High-tech Products		1	
	4	Caselet on Branding strategies in Clothing		2	


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Department of Management Studies

Semester -III (Session 2021-2022)

Subject: Consumer Behaviour (MBA/3203/M)

SUBJECT TEACHER: Prof. A. V. Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Introduction to consumer behaviour	1. Consumer Behaviour Engel, Blackwell, Thompson Publications 2. Consumer Behaviour Schiffman & Kanuk, Pearson Education	1	Total No. of Hours= 07
	2	Activities/ elements of consumer behaviour		1	
	3	Evolution of consumer behaviour		1	
	4	Marketing strategy & consumer behaviour		1	
	5	Marketing strategy & consumer behaviour		1	
	6	Concept of consumer involvement & decision making		1	
	7	Case Study		1	
II	1	Concept of consumer decision making process	1. Consumer Behaviour Batra 2. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing	1	Total No. of Hours= 08
	2	Information search & it's evaluation		1	
	3	Decision rules, purchase & post purchase evaluation		1	
	4	Concept of consumer motivation		1	
	5	Theories of motivation		1	
	6	Concept of consumer perception		1	
	7	Theories of consumer perception		1	
	8	Case Study		1	
III	1	Consumer attitude formation & change	1. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing 2. Consumer Behaviour Schiffman & Kanuk, Pearson Education	1	Total No. of Hours= 07
	2	Models of attitude formation		1	
	3	Personality- Meaning, characteristics & factors		1	
	4	Theories of personality		1	
	5	Psychographics- it's impact on buying behavior		1	
	6	Lifestyle- it's influence on buying behavior		1	
	7	Case Study		1	

IV	1	Diffusion of Innovation- factors & process	1 Consumer Behaviour	1	Total No. of Hours= 06
	2	Opinion Leadership- Characteristics, promotional strategy	Schiffman & Kanuk, Pearson Education	1	
	3	Role of family in consumer decision making	2. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing	1	
	4	Family life cycle stage, strategies adopted by spouses		1	
	5	Reference groups- types & it's influence		1	
	6	Case Study			
V	1	Industrial buying- Meaning & participants	1. Consumer Behaviour- Text & Cases, Nair, Suja, Himalaya Publishing	1	Total No. of Hours= 07
	2	Buying decisions & characteristics of industrial buying		1	
	3	Stages in industrial buying process.		1	
	4	Consumer behavior models- Howard Sheth	2. Consumer Behaviour Engel, Blackwell, Thompson Publications	1	
	5	Nicosia & EBM models of consumer behaviour		1	
	6	Sheth model of industrial buying		1	
	7	Consumer behavior studies in India			


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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Department of Management Studies
Semester –III (Session 2021-2022)
Subject: International Marketing Strategy
SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to International Markets	International Marketing – Francis Cherunilam Rungman A.M. & Hodgettts R.M., International Business	1	Total Lectures for Unit I: 7
	2	Expansion of International Markets, Motives for International Marketing		1	
	3	International Marketing Decisions		1	
	4	Scope of Marketing ,Indian Products Abroad		1	
	5	Multinational Enterprises ,International Culture & International Trade		2	
	6	Caselet on scope Indian product abroad		1	
II	1	Global Strategy Planning	International Marketing – Francis Cherunilam Rungman A.M. & Hodgettts R.M., International Business	2	Total Lectures for Unit II: 8
	2	Political Risk & Negotiation Strategy		2	
	3	Market Selection		1	
	4	Market Entry Strategies		1	
	5	Market Coverage Strategies		1	
	6	Caselet on Market Entry & Coverage Strategy		1	
III	1	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	International Product Decisions- New Product Development, Business Environment & Strategies		1	
	3	International Pricing Decisions – Pricing Objectives, Factors affecting Pricing		1	
	4	International Pricing Decisions- Pricing Methods, Information required for Pricing		1	
	5	International Distribution Decisions- International Channel System, Types of Intermediaries		2	
	6	Case-study on Product & Pricing Decisions		1	
IV	1	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	International Marketing Intelligence- Methods of Data Collection, Problems in International Research		1	
	3	International Promotion- Promotion Strategies, Major Decisions in International Communications		2	
	3	Export Procedures & Documents		2	
	4	Caselet on International Marketing Intelligence		1	
V	1	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	Issues in International Business		1	
	3	Business Ethics, Social Responsibility Of Business		2	
	4	Environmental Issues ,		2	
	5	Labour Issues		1	
Total Lectures Required				36	

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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

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	1	Introduction to Sales Management & Sales Organization	"Sales Management" by Pradip Kumar Malik	1	Total Lectures for Unit I: 8
	2	Determining Sales Related Marketing Policies - I		1	
	3	Determining Sales Related Marketing Policies - II		1	
	4	Sales Functions and Policies		1	
	5	International Sales Management		1	
	6	Personal Selling- I		1	
	7	Personal Selling- II		1	
	8	Case Study		1	
II	1	Sales Planning	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit II: 6
	2	Sales Budgets - Estimating Market Potential		1	
	3	Forecasting Sales		1	
	4	Sales Quotes		1	
	5	Sales and Cost Analysis		1	
	6	Case Study		1	
III	1	Sales Force Management; Hiring and Training Sales Personnel	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit III: 8
	2	Time and Territory Management		1	
	3	Compensating Sales Personnel		1	
	4	Motivating Sales Force - I		1	
	5	Motivating Sales Force - II		1	
	6	Leading the Sales Force		1	
	7	Evaluating Sales Force Performance		1	
	8	Case Study		1	
IV	1	Marketing Logistics; Distribution as Marketing Mix Element	"Distribution Management" by Tapan K Panda	1	Total Lectures for Unit IV: 7
	2	Distribution Resource Planning		1	
	3	Marketing Channel Integration		1	
	4	Channel Management; Nature of Marketing Channels		1	
	5	Evaluating Channel Performance		1	
	6	Tele Marketing and Web Marketing		1	

	7	Case Study		1	
V	1	Managing Channel Conflicts	"Distribution Management" by Tapan K Panda	1	Total Lectures for Unit V: 6
	2	Channel Information Systems - I		1	
	3	Channel Information Systems - II		1	
	4	Wholesaling and Retailing		1	
	5	Ethical and Social Issues in SDM		1	
	6	Case Study		1	
			Total Lectures Required: 35		

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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies

Odd-Semester – III (Session 2021-221)-Teaching Plan

Subject Teacher: Prof. R.A.Kapdiya

Subject: FD (4103)

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Introduction to syllabus & Importance of subject	“Financial Derivatives” by S.Chand	1	
	2	Financial Derivatives- Introduction, Participants, its products, Feature.		2	
	3	History of Derivative Market		1	
	4	Myth about derivative market & its regulation in India		2	
		Total		06	
II	1.	Forward Contract-Concept, & meaning	“Financial Derivatives” by S.Chand	1	
	2.	Mechanism of Forward contract		2	
	3.	Concept of pricing of forwards		2	
	4.	Hedging in forward Contracts		2	
		Total		07	
III	1.	Future Contract-Introduction, Concept	“Futures & Options” by Gardener	1	
	2.	Mechanism of Future Contract		2	
	3.	Types of Future-Pricing & Hedging		2	
	4.	Types o Future- Stock Index future		2	
		Total		07	
IV	1.	Options-Concept & Meaning	“Futures & Options” by Gardener	2	
	2.	Types of options		2	
	3.	Pricing of Options		1	
	4.	Black & Scholes Binomial Model Trading strategies involving options		2	
		Total		07	
V	1.	Swaps-Concept & meaning	“Financial Derivatives” by S.Chand	1	
	2.	Mechanism of Interest rate swaps		2	
	3.	Mechanism of currency swaps		2	
	4.	Valuation of interest rate swaps		2	
	5.	Valuation of currency swaps		2	
		Total		09	36

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Department of Management Studies
P.R.M.I.T. & R. Badnera

**Prof. Ram Meghe Institute of Technology & Research,
Badnera**

Department of Management Studies

Semester - IV (A.Y. 2021-2022)

Teaching Plan

Subject: Financial Decision Analysis (FDA) Prof. G.S.Kalmegh

Subject Code: - MBA/4101/CGF

Day	Topic No.	Topic	Text & Refernces	Unit
1	1.2	Introduction To Financial Decision Analysis	Fundamentals of Investments, by William F, Alexander, Gordon, J. and Sharpe, Englewood Cliffs,New Jersey.,Prentice Hall Inc.,3rd ed., 2003	1
2		Ratio Analysis		1
3		Ratio Analysis -2		1
4	1.3	Fund Flow Analysis		1
5		Fund Flow Analysis -2		1
6		Fund Flow Analysis -3		1
7	1.4	Cash Flow Analysis		1
8		Cash Flow Analysis -2		1
9		Revision - Unit 01		2
10	2.1	Capital Expenditure	Financial Management by Prasanna Chandra,McGraw Hill Education, Ninth edition	2
11	2.2	Capital Expenditure - Risk Decisions		2
12		Capital Expenditure - Risk Decisions		2
13	2.3 & 2.4	Cvp Analysis		2
14		Cvp Analysis		2
15		Cvp Analysis		2
16		Revision Unit-2		2
17	3.2	Leasing Vs. Buying	Financial Management and Policy by Van Horne James & Dr. Sanjay Dhamija, Pearson Education India; 12 edition (2011)	3
18		Leasing Vs. Buying		3
19	3.3	Replacement Decisions		3
20		Replacement Decisions		3
21	3.5	Sequencing Decisions		3
22		Sequencing Decisions		3
23		Revision Unit - 3		3
24	4.1	Business Failure And Reorganisation	Practical Cost Accounting written by Khanna B.S. published	4
25	4.2	Merger / Acquisitions		4

26		Merger / Acquisitions	by S.Chand & Co	4
27		Merger / Acquisitions		4
28	4.4	Capital Structure Decisions		4
29		Capital Structure Decisions		4
30		Revision Unit-4		4
31	5.1, 5.2	Dividend Decision Models	Khan and Jain, Financial Management, Tata Mcgrawhill, 5th ed	5
32		Dividend Decision Models		5
33		Dividend Decision Models		5
34	5.3 & 5.4	Present Value Models		5
35		Present Value Models		5
36		Revision Unit - 5		5

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Management Studies

Lesson Plan
Subject: Foreign Exchange Markets
Semester –IV (Session 2021-2022)
Subject Teacher: Prof. G.D. Pachaghare

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	The rise and fall of Bretton Woods	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol, 2001. P.G.Apte, "International Financial Management", Tata McGraw Hill	2	Total Lectures for Unit I: 7
	2	Present International Financial Systems		1	
	3	International Monetary System		2	
	4	Working of IMF		1	
	5	Case study		1	
II	1	Foreign Exchange Markets: Organization, Structure and types	P.G.Apte, "International Financial Management", Tata McGraw Hill Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol, 2001.	1	Total Lectures for Unit II: 8
	2	Exchange rate determination and equilibrium		2	
	3	Factors affecting exchange rate determination		2	
	4	Direct and Indirect Quotes		1	
	5	Spot and Forward Rate		1	
	6	Case Study		1	
III	1	Exposure management: Organization, function, parameter	Bhalla, V.K., International Financial Management, 2nd ed., New Delhi, Anmol, 2001.	2	Total Lectures for Unit III: 8
	2	Exposure management: constraints and techniques		1	
	3	Exposure Information System		1	
	4	Corporate Exposure Management		2	
	5	Case Study		2	
IV	1	Currency futures and options	Maheshwari, S. N., International Financial Management	1	Total Lectures for Unit IV: 6
	2	Interest rate swaps		2	
	3	Currency Swaps working and valuation		2	
	4	Case Study		1	
V	1	Euro-currency market	Bhalla, V. K., Managing International Investment and Finance, New Delhi, Anmol, 1997	1	Total Lectures for Unit V: 7
	2	Euro banking and Euro-currency centers		2	
	3	Eurobond and its valuation		1	
	4	International Bond market- Introduction and features		2	
	5	Case Study		1	
Total Lectures Required				36	


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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies(M.B.A.)

Semester – (Session 2021-2022)

Subject: Insurance Management

SUBJECT TEACHER: Prof. A.E.Kharad

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Introduction to Insurance, Concept and Definition, Nature of Insurable Risk	Insurance & Risk Management : P.K.Gupta, Insurance Management : S.C.Sahu & S.C.Das, Principle and Practices Insurance: Dr.P.Periasamy	2	Total Lectures for Unit I: 7
	2	Importance and Classification of Insurance		2	
	3	Essentials and Principles of an Insurance Contract		2	
	4	Insurance Contract v/s. Wagering Contract		1	
II	1	Introduction to Life Insurance, Concept, Definition	Insurance & Risk Management : P.K.Gupta, Insurance Management : S.C.Sahu & S.C.Das, Principle and Practices Insurance: Dr.P.Periasamy	2	Total Lectures for Unit II: 7
	2	Essential Features and Principles of Life Insurance, Characteristics		2	
	3	Need and Importance of Mortality Table, Construction of Mortality Tables		2	
	4	Types of Mortality Table, Computation of Premium.		1	
III	1	Life Insurance Products, Term Assurance Plan, Endowment Policies	Insurance & Risk Management : P.K.Gupta, Insurance Management : S.C.Sahu & S.C.Das, Principle and Practices Insurance: Dr.P.Periasamy	2	Total Lectures for Unit III: 8
	2	Whole Life Policies. Definition and Nature of Annuity		1	
	3	Life Insurance V/s Annuity, Types of Annuity Products		1	
	4	ULIP and Pension Plans, Meaning and Types, Selecting a Pension Plan		1	
	5	Comparison of different Insurance Plan		1	
	6	Life Insurance Corporation of India-Functions, Organization and Management		1	
	7	Case Let		1	
IV	1	Introduction to General Insurance ,Concept and Types	Insurance & Risk Management : P.K.Gupta, Insurance Management : S.C.Sahu & S.C.Das, Principle and Practices Insurance: Dr.P.Periasamy	1	Total Lectures for Unit IV: 8
	2	Fire Insurance , Concept, Definition, Nature and Functions		1	
	3	Procedure of taking out, Renewal, Cancellation and Assignment of Fire Insurance Policy		2	
	4	Principles of Fire Insurance-Utmost Good Faith,		1	
	5	Insurable Interest, Indemnity, Subrogation, Causa Proxima		2	
	6	Case Let		1	
V	1	Health Insurance, Automobile Insurance,	Insurance & Risk Management : P.K.Gupta, Insurance Management : S.C.Sahu & S.C.Das,	1	Total Lectures for Unit V: 6
	2	Agriculture Insurance, Property Insurance		2	
	3	Property Insurance ,Concept, Features, Functioning and Prospects		2	
	4	Case Let		1	
Total Lectures Required:				36	

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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies

Semester –IV (Session 2021-2022)

Teaching Plan

Subject: Management and Financial Services

Subject Teacher: Prof. R.A.Kapdiya

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Financial Services : Meaning , Importance and role	Gordan, E. and K. Natrajan, <i>Emerging Scenario of Financial Services</i> , Himalaya Publishing House, 1997	01	
	02	Indian Financial Market : Primary & Secondary	Avadhani, V.A., <i>Investment Analysis Portfolio Management</i> , 2nd ed., 1999.	01	
	03	Nature and Scope of Financial Services	Gordan, E. and K. Natrajan, <i>Emerging Scenario of Financial Services</i> , Himalaya Publishing House, 1997	01	
	04	Regulatory Framework of Financial Services		01	
	05	Financial System and Market		01	
	06	Case Study / Application Base		01	
			Total Lecture for Unit No 1st		06
II	01	Risk and Return	Kevin, <i>Portfolio Management</i> .	01	
	02	Risk management		01	
	03	Stock Exchange in India	Bhalla, V.K., <i>Investment Management : Security Analysis and Portfolio Management</i> , 8 th ed., Delhi, S.Chand, 2001	01	
	04	Stock Exchange operation		01	
	05	Managing of Issue of Share and Bonds		01	
	06	Fixed Deposit and Inter-Corporate Loans	Gordan, E. and K. Natrajan, <i>Emerging Scenario of Financial Services</i> , Himalaya Publishing House, 1997	01	
	07	Case Study		01	
		Total Lecture for Unit No 2nd		07	
III	01	Leasing	Gordan, E. and K. Natrajan, <i>Emerging Scenario of Financial Services</i> , Himalaya Publishing House, 1997	02	This Unit is based on Numerical
	02	Hire Purchase		02	
	03	Debt Securitization		02	
	04	Housing Finance		02	
		Total Lecture for Unit No 3rd		08	
IV	01	Credit Rating & Credit Rating	Bhalla, V.K.,	01	

		Agencies	<i>Investment Management : Security analysis and Portfolio Management</i> , New Delhi, S.Chand, 2001	
	02	Credit Card and their Types		01
	03	Mutual Fund	Gordan, E. and K. Natrajan, <i>Emerging Scenario of Financial Services</i> , Himalaya Publishing House, 1997	01
	04	Advance banking	Vasant Desai, <i>Development Banking and Financial Intermediaries, Economy</i> , Himalaya Publishing House Pvt. Ltd. India 2008	01
	05	Insurance and their types	O.P. Agrawal, <i>Banking and Insurance, Economy</i> , Himalaya Publishing House Pvt. Ltd. India 2010	01
	06	Merchant Banking services		01
	07	Case study		01
		Total Lecture for Unit No 4th		07
V	01	Venture Capital`	Khan and Jain, <i>Financial Management</i> , Tata Mcgrawhill, 5 th ed.	02
		Factors for failing		01
	02	Bill Discounting		01
	03	Case Study		01
		Total Lecture for Unit No 5th		05

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Department of Management Studies
P.R.M.I.T. & R. Badnera

Department of Management Studies(M.B.A.)
Semester – (Session 2021-2022)
Subject: Security Analysis & Portfolio Management
SUBJECT TEACHER: Prof. K. S. Bijawe

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Security Analysis- Defination, Objectives	Bhalla, V.K., Investment Management: Security Analysis and Portfolio Management. & Avadhani, V.A., Investment Analysis Portfolio Manageme	1	Total Lectures for Unit I: 7
	2	Operations of Indian Stock Market		1	
	3	Types & Its Recent Developments		1	
	4	Listing & Indexing of Securities Rules & Regulations		2	
	5	SEBI- Roles, Functions		1	
	6	Case Study		1	
II	1	Fundamental Analysis	Bhalla, V.K., Investment Management: Security Analysis and Portfolio Management. & Avadhani, V.A., Investment Analysis Portfolio Manageme	1	Total Lectures for Unit II: 7
	2	Economy-Industry & Company (EIC Analysis)		2	
	3	Technical Analysis		2	
	4	Tools & Techniques		1	
	5	Case Study		1	
III	1	Portfolio Management Concept & Meaning	Bhalla, V.K., Investment Management: Security Analysis and Portfolio Management. & Avadhani, V.A., Investment Analysis Portfolio Manageme .	1	Total Lectures for Unit III: 8
	2	Risk-Return Tradeoff		1	
	3	The Mean -Variance Criterion (MVC)		1	
	4	Markowitz Portfolio Theory		1	
	5	MVC & Portfolio Selection		1	
	6	Portfolio of Two Risky Securities		1	
	7	A Three Security Portfolio		1	
	8	Case Study		1	
IV	1	The Efficient Frontier- Tracing & Constructing	Bhalla, V.K., Investment Management: Security Analysis and Portfolio Management. & Avadhani, V.A., Investment Analysis Portfolio Manageme .	1	Total Lectures for Unit IV: 7
	2	Sharpe: Single Index Model		1	
	3	Capital Asset Pricing Model		1	
	4	Characterisitics Lines		1	
	5	Factor Models and Arbitrage Pricing Theory.		2	
	6	Case Study		1	
V	1	Portfolio Investment Process	Bhalla, V.K., Investment Management: Security Analysis and Portfolio Management. & Avadhani, V.A., Investment Analysis Portfolio Manageme	1	Total Lectures for Unit V: 7
	2	Bond Portfolio Management Strategies		1	
	3	Investment Timing		1	
	4	Portfolio Performance Evaluation		2	
	5	Revision Models		1	
	6	Case Study		1	
Total Lectures Required:				36	


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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Department of Management Studies					
Semester -IV (Session 2021-2022)					
Subject: Strategic Management (MBA/401)					
SUBJECT TEACHER: Prof. A. V. Deshmukh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Concept of strategy	Business Policy and Strategic Management – Acharya and Govekar	1	Total =08
	2	Evolution of Corporate Policy in India		1	
	3	Strategic Management		1	
	4	Strategic management Process		1	
	5	Models and Phases of Strategic Management Process-I		1	
	6	Models and Phases of Strategic Management Process-II		1	
	7	7-S Framework		1	
	8	Case study		1	
II	1	SWOT Analysis	<i>Strategic Management-Francis Cherunilam</i>	1	Total =07
	2	Environmental Analysis-I		1	
	3	Environmental Analysis-II		1	
	4	Competitive Analysis		1	
	5	In Internal corporate Analysis-I		1	
	6	Internal corporate Analysis-II		1	
	7	Case Study		1	
III	1	Strategic Analysis	<i>Strategic Management-John Pearce- TMH</i>	1	Total =07
	2	Cost Analysis		1	
	3	Portfolio Analysis		1	
	4	Display Matrices		1	
	5	Operating and Financial Analysis-I		1	
	6	Operating and Financial Analysis-II		1	
	7	Case Study		1	
IV	1	Strategic Alternatives	Corporate Strategy and Business Policy - Azhar Kazmi, TMH Publications	1	Total =07
	2	Diversification		1	
	3	Mergers and Acquisition-I		1	
	4	Mergers and Acquisition-II		1	
	5	Turn-Around Management		1	
	6	Turn-Around Management		1	
	7	Case Study		1	
V	1	Strategic Choice	<i>Strategic Management-John Pearce- TMH</i>	1	Total =07
	2	Implementation of Strategy-I		1	
	3	Implementation of Strategy-II		1	
	4	Evaluation of Strategy		1	
	5	Control Of Strategy-I		1	
	6	Control Of Strategy-II		1	
	7	Case Study		1	


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 Department of Management Studies
 P.R.M.I.T. & R., Badnera

Department of Management Studies

Semester -IV (Session 2021-2022)

Subject: CLM

SUBJECT TEACHER: PROF. P.A.Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Leadership – Meaning, Concepts and Myths,	Principles of Management 10th ed- Koontz, H and Wechrich,H	2	Total=07
	2	Components of Leadership- Leader, Followers and situation		2	
	3	Assessing Leadership & Measuring Its effects,.		2	
	4	Case Study		1	
II	1	Focus on the Leader – Power and Influence	Leadership & Management Development	1	Total=08
	2	Leadership and Values		1	
	3	Leadership Behaviour		2	
	4	Attributes of Leaders and Managers		2	
	5	Leadership and Management		1	
	6	Case Study		1	
III	1	Contingency Theories of Leadership	Leadership & Management Development	2	Total=07
	2	Styles of Leadership		2	
	3	Leadership Dimensions		1	
	4	Leadership Development		1	
	5	Case Study		1	
IV	1	Leadership Skills – Basic Leadership Skills	Human Resource Management -VSP Rao	1	Total=06
	2	Building Technical Competency		2	
	3	Advanced Leadership Skills		2	
	4	Case Study		1	
V	1	Groups, Teams and Their Leadership	West Michael - Effective Team Work Leadership & Management Development	1	Total=08
	2	Leadership and Change		2	
	3	Leadership Model		2	
	4	Brief Biographies of some great western and Indian Business Leaders-Henry Ford-II, Victor Triumph, Bill Gates		1	
	5	J.R.D. Tata, Dhirubhai Ambani, Ratan Tata		1	
	6	Case Study		1	

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Department of Management Studies
P.R.M.I.T. & R. Badnera

MBA Teaching Plan 2021-22 Winter Session (Even SEM) Sem-IV Subject : HBWP (MBA/4301/OB)

SUBJECT TEACHER- PROF. Y. R. VAIDYA

Unit No.	Topic No	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
1	1	OB: Definition, Objectives, Key Elements and nature.Organizational Behaviour Process,models	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications & Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	2	Organizational Behaviour systems and its elements.Overview of evolution of Organizational Behaviour.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	3	Contributing disciplines to Organizational Behaviour.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	4	Individual and Individual Difference,	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Human Behaviour and its causation, models of man,	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	6	whole person approach including physical, psychological, mental, emotional and spiritual level.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	7	Case Study	A Tale of Twist & Turn A Case Study	1	
2	1	Intelligence, Emotions and moods,Abilities,competencies and skills	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	2	Personality, perception, attitudes,Values, motivation and learning.	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications	1	
	3	Personality: concepts, Theories and determinants,applications in Organizational Behaviour.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	

	4	Perception:Defination, Difference between perception and sensation, factors affecting perception, improving perceptions and applications in Organizational Behaviour.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Attitudes and Values: Attitudes- concepts, formation, types, measurement and attitude change. Overview of values and its application in Organizational Behaviour	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	6	Case Study	Prijudices in Workplace Real or Perceived? Case Study	1	
3	1	Job Satisfaction, Organizational commitment and loyalty:Overview, Concept and Applications in Organizational Behaviour	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	2	Emotions and moods-types, sources and theories with applications in Organizational Behaviour	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	3	Emotional Intelligence, Transactional Analysis	Organiztional Behaviour- Margie Parikh Ranjen Gupta Mc Graw Hill Publications	1	
	4	Overview of Motivation and Morale in Organizational Behaviour,	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Overview of Group Dynamics- Meaning, Types of Groups & Group Processes.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	6	Case Study	Groups Make a Difference at Brazil's Semco	1	
4	1	Learning- Meaning, Definition, Principles and concept of reinforcement,punishment.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	

	2	Learning Behaviour-Concept, Models and its applications. sources, types, aspects of conflicts	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications	1	
	3	Conflict and Conflict Resolution-Definition,	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications	1	
	4	Conflict resolution and management,	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Negotiation strategies, Counseling, Participative management.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	6	Case Study	When CEO of a Family Firm Gets into a Role Conflict	1	
5	1	Organizational culture and climate-Organizational culture its definition, types, functions, managing culture.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	2	Creating Sustaining and changing culture.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	3	Organizational Climate- Concept, Dimenstions, Determinants and comparison with organizational culture	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	4	Quality of Work life- Concept, Meaning and Applications.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Case Study	P & G - The Epitome of Organizational Culture	2	


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MBA Teaching Plan 2021-22 Winter Session (Even SEM) SEM-IV Subject : IHRM (MBA/4306/OB

SUBJECT TEACHER-PROF. Y. R. VAIDYA

Unit No.	Topic No	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
1	1	International HRM: Concept and Issues	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	2	Barriers in Global HRM	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	3	Culture, Society and Nations	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	4	Cultural Change and Universals	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	5	Cultural Sensitivity and Global Business	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	6	Cross Cultural Theories.	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	7	Case Study	IHRM Challenges- A Case Study	1	
2	1	International Business	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	2	Employee Behaviour and Cross Culture	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	3	Cross Cultural Negotiations	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	4	Organizational Culture.	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	5	Case Study	Cultural Clash- A Case Study	1	
3	1	Culture and Organisational Performance	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	

	2	International Business and International HRM Approaches	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	3	Organizing Multinational Structures	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	4	Case Study	NIIT Case Study	1	
4	1	International HRM Functions: Recruitment and Selection	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	2	Training and Development	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	3	Compensation,	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	4	Employee Performance	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	1	
	5	Case Study	JAMBA Juice- Case Study	1	
5	1	International Projects and HR	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	2	Organizational Ethics	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	3	Ethics across culture	International HRM Text & Cases -S.C. Gupta, MacMillan Publication	2	
	4	Case Study	Coca Cola Case Study	2	


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Department of Management Studies
Semester –IV (Session 2021-2022)
Subject: Knowledge Management
SUBJECT TEACHER: Prof. P. A. Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Knowledge and Knowledge Management: Concept and Meaning	Donald Hislop, Knowledge Management in Organization, Oxford University Press Knowledge Human Resource Management- Ganesh Shermon	1	Total Lectures for Unit I: 8
	2	Contemporary Significance, Aims, Philosophy and Structure		1	
	3	Knowledge Society Concept, post industrial concept		1	
	4	Types of Knowledge, Conduit model of knowledge sharing		1	
	5	Knowledge management processes.		1	
	6	Knowledge-features, perspectives of knowledge		1	
	7	Organizational knowledge base		1	
	8	Case Study		1	
II	1	Managing knowledge, knowledge management and business strategy	Knowledge Management in theory & practice-Kimiz Dalkir & Donald Hislop, Knowledge Management in Organization	1	Total Lectures for Unit II: 7
	2	Knowledge management strategies-Hansen Codification versus personalization framework		1	
	3	Earl's Seven School of knowledge management		1	
	4	Alvesson and Karreman's four knowledge management approaches.		1	
	5	Knowledge worker, knowledge intensive firms, knowledge work and ambiguity		1	
	6	Workers participation in knowledge processes.		1	
	7	Case Study		1	
III	1	Learning and Knowledge Management: The Heterogeneity of learning,	Knowledge Management in theory & practice-Kimiz Dalkir & Donald Hislop, Knowledge Management in Organization	1	Total Lectures for Unit III: 8
	2	Dynamics of organizational learning, The learning organisation		1	
	3	Knowledge creations and loss-Innovation		1	
	4	Dynamics and knowledge processes		1	
	5	Knowledge creation theory, social dynamics of innovation networking processes.		1	
	6	Forgetting and Unlearning Knowledge-Typology of forgetting		1	
	7	Barriers and facilitation of unlearning.		1	
	8	Case Study		1	
IV	1	Managing and sharing knowledge: Socio Cultural Issues, Interpersonal Trust, Group Identity, Personality.	Knowledge Management in theory & practice-Kimiz Dalkir & Donald Hislop, Knowledge Management in Organization	1	Total Lectures for Unit IV: 7
	2	Communities of practice-basic characteristics, origins, features, dynamics, knowledge base, intra community		2	
	3	knowledge processes and managing communities of practices		1	
	4	Cross Community, boundary spanning and knowledge process-significance, identity, knowledge, trust and social relations, relationship management.		2	
	5	Case Study		1	
V	1	Power, politics, conflict and knowledge processes.	Knowledge Management in theory & practice-Kimiz Dalkir & Donald Hislop, Knowledge Management in Organization	1	Total Lectures for Unit V: 6
	2	Information, Communication Technology and Knowledge Management		1	
	3	Knowledge management-culture management and HRM practices		1	
	4	Leadership and knowledge management		1	
	5	Knowledge management as a fashion		1	
	6	Case Study		1	
Total Lectures Required				36	

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Department of Management Studies Semester –IV (Session 2021-2022)

Teaching Plan

Subject: Management Of Group Process

Subject Teacher : Prof. M.M.Nistane

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Nature & Characteristics of Group, Types of Group, Theories	P.Subba Rao, K. Aswatathapa	2	
	2	Group formation, Stages of Group, Development,		2	
	3	Usefulness & Pitfalls of Group, Size and Name of Group,		1	
	4	Group Decision Making & problem solving Processes		1	
	5	Models of Decision Making		1	
	6	Case Study		1	
		Total Lectures		8	
II	1	Group as a medium of learning, Determinants of Group	K. Aswatathapa	2	
	2	Behavior, Group for Development and Change		2	
	3	Conflicts and Negotiation in groups		2	
	4	Case Lets		1	
		Total Lectures		7	
III	1	Group Dynamics, Group Cohesiveness	P.Subba Rao, K. Aswatathapa	2	
	2	Inter Group Processes		1	
	3	Group Change Influence Process		2	
	4	Case Study		1	
		Total Lectures		6	
IV	1	Interpersonal Relationship & Interpersonal Communication	K. Aswatathapa	2	
	2	Interpersonal Awareness,		1	
	3	Group Communication		1	
	4	Its process, Feedback Process.		2	
	5	Case Lets		1	
		Total Lectures		7	
V	1	Group Effects: Group Synergy,	P.Subba Rao, K. Aswatathapa	2	
	2	Inter Group Relationship,		1	
	3	Team Building, Group Leadership, Power and Politics in Group		2	
	4	Stress and Frustration and its management in organization.		2	
	5	Case Study		1	
		Total Lectures		8	

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Department of Management Studies

Semester -III (Session 2021-2022)

Subject: Organizational Development and intervention strategies

Subject Teacher: Miss. M. M. Nistane

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Introduction	<ul style="list-style-type: none"> Theory of OD & Change by Cummings & Worley OD & Transformation By French, Bell& Zawacki HRM by P. Subba Rao HRD by Werner Destmone 	01	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	Develop insight into emerging trends and scope of the subject		01	
	03	Meaning, Concept and myth		01	
	04	Theory of OD		01	
	05	Approaches to problem Diagnosis		01	
	06	Case study		01	
Total Lecture				06	
II	01	Techniques- steps in OD	<ul style="list-style-type: none"> Theory of OD & Change by Cummings & Worley OD & Transformation By French, Bell& Zawacki HRM by P. Subba Rao HRD by Werner Destmone 	02	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	General OD competencies		01	
	03	OD skills		01	
	04	Technical training		01	
	05	Case Study		01	
Total Lecture				06	
III	01	OD Evaluation	<ul style="list-style-type: none"> Theory of OD & Change by Cummings & Worley OD & Transformation By French, Bell& Zawacki HRM by P. Subba Rao HRD by Werner Destmone 	02	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	OD Ethics of professional		01	
	03	Future of OD		01	
	04	Introduction to Organizational Effectiveness		01	
	05	Concept and objectives		01	
	06	Nature and need of OEC		01	
	07	Case study		01	
Total Lecture				08	
IV	01	Organizational change	<ul style="list-style-type: none"> Theory of OD & Change by Cummings & Worley OD & Transformation By French, Bell& Zawacki 	01	Many other books & internet will be referred for Diagrams, Data ,Case studies &
	02	Concept and objectives		01	
	03	Nature and types		01	
	04	Models and implementation		02	
	05	Change strategies		02	

	06	Change agent	<ul style="list-style-type: none"> • HRM by P. Subba Rao • HRD by Werner Destmone 	01	Details
	06	Case Study			
Total Lecture				08	
V	01	Organizational Intervention	<ul style="list-style-type: none"> • Theory of OD & Change by Cummings & Worley • OD & Transformation By French, Bell & Zawacki • HRM by P. Subba Rao • HRD by Werner Destmone 	01	Many other books & internet will be referred for Diagrams, Data, Case studies & Details
	02	Organizational Intervention-Major techniques		01	
	03	Designing intervention		01	
	04	Interpersonal Interventions		01	
	05	Team Interventions		01	
	06	Inter- group Interventions		01	
	07	Development interventions Some important final issues concerning OD		01	
	08	Case Study		01	
Total Lecture				08	


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Department of Management Studies
Semester –IV (Session 2021-2022)
Subject: International Marketing Environment
SUBJECT TEACHER: Prof. S. B. Diwan

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction- Distinction between International Marketing and Domestic Marketing	International Marketing : Rakesh Joshi, Oxford International Marketing Mgt: U.C.Mathur, SAGE	1	Total Lectures for Unit I: 8
	2	International Institutions – UNCTAD, WTO		2	
	3	Economic Environment of International Marketing		1	
	4	Trade Agreement – Free Trade Area, Customs Union, Common Market		2	
	5	Evolution of International Business Theories		1	
	6	Case Study		1	
II	1	Overview of India & World Trade – EXIM Policy	International Marketing : Rakesh Joshi, Oxford International Marketing Mgt: U.C.Mathur, SAGE	2	Total Lectures for Unit II: 8
	2	Foreign Trade Policy and Regulation		1	
	3	Trading Partners- Bilateral & Multilateral Trade Agreement		2	
	4	International Market Place & Space, Barriers, International Politics & Economic Integration , Trade Blocks		2	
	5	Case Study		1	
III	1	Institutional Infrastructure for Export Promotion – Export Promotion Councils (EPC)	International Marketing : Rakesh Joshi, Oxford International Marketing Mgt: U.C.Mathur, SAGE	2	Total Lectures for Unit III: 7
	2	Public Sector Trading Agencies – ECGC		1	
	3	Commodity Board		1	
	4	Export – Import Management – Registration of Exporters, Procedure & Documents		1	
	5	Export Quotations		1	
	6	Case Study		1	
IV	1	Shipping and Transportation.	International Marketing : Rakesh Joshi, Oxford International Marketing Mgt: U.C.Mathur, SAGE	1	Total Lectures for Unit IV: 8
	2	Insurance, Negotiations of Documents		2	
	3	Instruments of Payments – Open Account, Bills of Exchange		2	
	4	Instruments of Payments – Letter of Credit, Export Finance		2	
	5	Case Study		1	
V	1	Trade and BOP of India	International Marketing : Rakesh Joshi, Oxford International Marketing Mgt: U.C.Mathur, SAGE	2	Total Lectures for Unit V: 5
	2	Technological Developments and International Marketing		2	
	3	Case Study		1	
Total Lectures Required				36	

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Department of Management Studies

Semester -III (Session 2021-2022)

Subject: Marketing for Non-Profit Organizations and Social Services

Subject Teacher: Miss. R. K. Dhanuka

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Introduction	<ul style="list-style-type: none"> Marketing Non Profit Organizations by S.M. Jha Kotler, Philip and Roberto Eduardo L., Social Marketing 	01	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	Scope of Marketing in the context of NPO: Hospitals, Police, Public Services, etc.		01	
	03	Scope of Marketing in the context of NPO: Hospitals, Police, Public Services, etc		01	
	04	Scope of Marketing in the context of social services, e.g. health and family welfare, adult literacy Programme.		01	
	05	Application of Marketing in the context of social services, e.g. health and family welfare, adult literacy Programme		01	
	06	Case study		01	
Total Lecture				06	
II	01	Setting Marketing Objective	<ul style="list-style-type: none"> Marketing Non Profit Organizations by S.M. Jha Kotler, Philip and Roberto Eduardo L., Social Marketing 	01	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	Analyzing internal & external Environment influencing NPO's		02	
	03	Analyzing internal & external Environment influencing Social Services		02	
	04	Case Study		01	
Total Lecture				06	
III	01	Market Segmentation	<ul style="list-style-type: none"> Marketing Non 	02	Many other

	02	Customer Targeting	<ul style="list-style-type: none"> Profit Organizations by S.M. Jha Kotler, Philip and Roberto Eduardo L., Social Marketing 	01	books & internet will be referred for Diagrams, Data ,Case studies & Details
	03	Marketing Mix Strategies		02	
	04	Product-Service life cycle for NPO's		01	
	05	Product-Service life cycle for social services		01	
	06	Case study		01	
Total Lecture				08	
IV	01	Beneficiary Contact Programme	<ul style="list-style-type: none"> Marketing Non Profit Organizations by S.M. Jha Kotler, Philip and Roberto Eduardo L., Social Marketing 	01	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	Use of print and electronic media in mass communication		01	
	03	Diffusion of innovative ideas		01	
	04	Marketing Tools		02	
	05	Distribution & Delivery Strategy for NPOs and Social Services		02	
	06	Case Study		01	
Total Lecture				08	
V	01	Marketing Strategies for social services	<ul style="list-style-type: none"> Marketing Non Profit Organizations by S.M. Jha Kotler, Philip and Roberto Eduardo L., Social Marketing 	02	Many other books & internet will be referred for Diagrams, Data ,Case studies & Details
	02	Marketing Strategies for NPOs		02	
	03	Relevance of CST (Corporate Social Responsibility)		01	
	04	Review and monitoring of marketing strategies of socially relevant programmes.		02	
	05	Case Study	01		
Total Lecture				08	

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Department of Management Studies
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Department of Management Studies

Semester –IV (Session 2021-2022)

Subject: Marketing Of Services (MBA/4202/SM)

SUBJECT TEACHER: Prof. R.K. Dhanuka

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1	Understanding Services	Services Marketing – Concepts, application and cases- Shajahan S.	1	Total=07
	2	The nature of services marketing		2	
	3	Classification of Services		1	
	4	Classification of Services		1	
	5	Importance of Service Marketing		1	
	6	Case Study		1	
II	1	Services Experience, Consumer Behavior in Services	Services Marketing Text & Readings, Indian Perspective – Ravi Shankar	2	Total=08
	2	Customer Expectations and Perceptions,		1	
	3	Listening to Customers		1	
	4	Monitoring and Measuring Customer Satisfaction		1	
	5	Monitoring and Measuring Customer Satisfaction		1	
	6	Complaints Handling		1	
	7	Case Study		1	
III	1	Strategic Issues in Service Marketing	Services Marketing Text & Cases – Rajendra Nargandkar	2	Total=07
	2	Market Segmentation and Targeting		1	
	3	Positioning and Differentiation of Services		1	
	4	Managing Demand and Capacity		1	
	5	Managing Demand and Capacity		1	
	6	Case Study		1	
IV	1	The Marketing Mix Elements	Services Marketing Text & Readings,	2	Total=07
	2	Maximizing Services Marketing Potential Relationship marketing		1	

	3	Maximizing Services Marketing Potential Relationship marketing	Indian Perspective – Ravi Shankar	1	
	4	Internal Marketing		1	
	5	Supplementary Services		1	
	6	Case Study & Practices		1	
V	1	Tourism and Travel Services Marketing	Services Marketing – Concepts, application and cases- Shajahan S.	1	Total=0 7
	2	Marketing of Financial Services		1	
	3	Communication Services		1	
	4	Information Services		1	
	5	Media Services Marketing-Advertising (Professional Services)		1	
	6	Media Service Marketing –Brand (Professional Services)		1	
	7	Case Study		1	
				Total Session	36

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Department of Management Studies

Semester –IV (Session 2021-2022)

Subject: Retail Marketing

SUBJECT TEACHER: Prof. S.B.Diwan

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	0.1	Retailing, An Introduction	Retailing Management – Swapna Pradhan	1	Total Lectures for Unit I: 7
	0.2	Retailing, Indian Vs Global Scenario		2	
	0.3	Types of Retailing		1	
	0.4	Types of Retail formats		2	
	0.5	Franchising in retailing		1	
II	1	Retail Marketing Mix	Channel Management & Retail Management – Meenal Dhotre	2	Total Lectures for Unit II: 8
	1.1	Consumer buying behavior in Retailing		2	
	1.2	Segmentation & Positioning in Retail		1	
	1.3	Structure of Retail Organization		1	
	1.4	Careers in retailing		1	
	1.5	Case Study		1	
III	2	Factors affecting retail location decision	Retail Management – Gibson Vedamani	2	Total Lectures for Unit III: 8
	2.1	Stratigies based on Retail location		2	
	2.2	Store Design		1	
	2.3	Store layout and Factors affecting Store layouts		1	
	2.4	Retailing image mix , Store façade		1	
	2.5	Case Study		1	
IV	3	Retail Communication Mix	The Art of Retailing – A.J. Lamba	1	Total Lectures for Unit IV: 7
	3.1	Sales Promotion in Retailing		1	
	3.2	Advertising in Retailing		1	
	3.3	Public Relations in Retailing		1	
	3.4	Personal Selling in Retailing		1	
	3.5	Steps in planning retail communication		1	
	3.6	Case Study		1	
V	4	Retail Strategies : Differentiation Strategies	Retail Management – W. Steward	1	Total Lectures for Unit V: 7
	4.1	Growth Strategies		1	
	4.2	Expansion Strategies		1	
	4.3	Pricing Stratigies in Retail		1	
	4.4	Role of IT in retailing		1	
	4.5	Case Study		1	
Total Lectures Required: 36					

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Department of Management Studies
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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Management Studies(M.B.A.)

Lesson Plan
Subject: Rural Marketing
Semester –IV (Session 2021-2022)
Subject Teacher: Prof. G.D. Pachaghare

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Rural Marketing Management Perspectives	C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Rural Marketing" – Text and Cases, Pearson Education	1	Total Lectures for Unit I: 6
	2	Rural – Urban Disparities, Challenges to Indian Marketer		2	
	3	Rural Marketing – Concept, Scope, Nature, Taxonomy Attractiveness		1	
	4	Urban Vs. Rural Marketing		1	
	5	Case study		1	
II	1	Rural consumer behavior – buyer characteristics	C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Rural Marketing" – Text and Cases, Pearson Education	1	Total Lectures for Unit II: 7
	2	Decision process and behavior patterns, evaluation procedure		2	
	3	Brand loyalty in rural markets		1	
	4	Rural Marketing-Innovation adoption		2	
	5	Case Study		1	
III	1	Information System for Rural Marketing – Concepts, Significance	C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Rural Marketing" – Text and Cases, Pearson Education	1	Total Lectures for Unit III: 8
	2	Internal Reporting System		1	
	3	Marketing Research System, Decision Support System		2	
	4	Selecting and Attracting Markets – Concepts and Process, Segmentation, Degrees, Bases, Segmentation guidelines	C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Cases in rural marketing and integrated approach". Pearson education.	2	
	5	Targeting and Positioning		1	
	6	Case Study		1	
IV	1	Product Strategy for rural Markets, Concept and Significance	C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Rural Marketing" – Text and Cases, Pearson Education	2	Total Lectures for Unit IV: 9
	2	Product Mix and Product Item Decisions		2	
	3	Competitive Product Strategies		1	
	4	Pricing Strategy in Rural Marketing – Concept, Significance, Objectives, Pricing Strategy		2	
	5	Case Study		1	
V	1	Promotion towards rural audience	Robert Chambers, "Rural Development: Putting the last first", Pearson Education.	2	Total Lectures for Unit V: 7
	2	Exploring media, profiling target audience, designing right promotion strategy and campaign		2	
	3	Rural Distribution – Channels, old setup		1	
	4	New players, new approaches, coverage strategy		1	
	5	Case Study		1	
Total Lectures Required				36	


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Department of Management Studies
Semester –III (Session 2021-2022)
Subject: Sales Promotion Management
Subject Teacher: Miss. Pratiksha A. Kalmegh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Total
I	01	Introduction	Sales Promotion & Advertising Management by M.N. Mishra	01	7
	02	Sales Promotion & Marketing Mix		02	
	03	Nature and Scope of Sales Promotion	Advertising, sales and promotion Management by S.A Chunawala	01	
	04	Types of Sales Promotion	Sales Promotion Management by Bir Singh	02	
	05	Case Study		01	
II	01	Consumer Behavior & sales Promotion	Sales Promotion & Advertising Management by M.N. Mishra	02	7
	02	Deal Prone consumer	Advertising, sales and promotion Management by S.A Chunawala	02	
	03	Economic Theories of promotion		02	
	04	Case Study	Sales Promotion Management by Bir Singh	01	
III	01	Sales Promotion's Impact on Sales	Sales Promotion & Advertising Management by M.N. Mishra	01	8
	02	Sales promotion experiments		02	
	03	Evaluation of Sales promotion experiments	Advertising, sales and promotion Management by S.A Chunawala	02	
	04	Choice & purchase timing models	Sales Promotion Management by Bir Singh	02	
	05	Case study		01	
IV	01	Introduction to Sales promotion planning	Sales Promotion & Advertising Management by M.N. Mishra	01	7
	02	Process of Sales promotion planning		02	
	03	Introduction to sales promotion budget	Advertising, sales and promotion Management by S.A Chunawala	01	
	04	Process of sales promotion budget		01	
	05	Approaches to sales promotion budget	Sales Promotion Management by Bir Singh	01	
	06	Case Study		01	
V	01	Designing Promotional strategies	Sales Promotion & Advertising Management by M.N. Mishra	02	7
	02	Strategic issues in designing promotional strategies		01	
	03	Substantive Findings Coupons	Advertising, sales and promotion Management by S.A Chunawala	01	
	04	Issues on Coupons		01	
	05	Trade dealings	Sales Promotion Management by Bir Singh	01	
	06	Case study		01	
			Total Lectures Required: 36		


HEAD
Department of Management Studies
P.R.M.I.T. & R. Badnera

P. G. Department of Computer Applications

(Odd Semester ^W: 2021
Session/Teaching Plan

Name of Faculty: Rupali Sherekar

Subject Name: Lab 1: OOP in Java

Code: MCA 20107

Year: Ist

Sem: I

Subject

Sr. No.	Unit No.	Topics to be Covered	Month	Week	Conduction Date	
2	Unit I	Java Basics, Data types and Variables, Operators, Control structures	January	Week 1		
3		implementing concepts of OOPs using Java, , classes, declaring objects.				
4		Packages.,access control, Inheritance, Polymorphism,			Week 2	
5		Abstract classes, Interfaces,				
6		Arrays: Basics, One - & Multi- dimensional.		Week 3		
7		Examples				
8		Examples				
9		Exception handling: Built-in ,Using try and catch, multiple catch clauses, throw,			February	Week 4
10	throws, finally clauses,	Week 1				
11	checked and unchecked Exceptions,					
12	Multithreaded programming: Java thread model, creating threads,		Week 2			
13	Methods of Thread class					
14	thread priorities	Week 3				
15	synchronization.					
16			Week 4			
17						
17	Unit III	Java I/O: Stream classes, Byte Stream & Character Streams, Predefined streams,BufferedInputStream	March	Week 1		
18		Input stream, Output stream, FileInputStream,				
19		FileOutputStream				
20		Character stream			Week 2	
21		Generic Programming:Introduction				
22		generic classes, Bounded types		Week 3		
23		generic methods, Wildcards, Comparator				
24		Unit III		Java Collections Framework: Introduction, Collections Framework hierarchy, List,	Week 4	
25	Queue, Set,					
26	Map Interface and their implementing classes and methods,					
27	Iterator/ListIterator, Utility classes :Arrays,		Week 5			
				Week 1		

	Collection		
28	Introduction To Swing: Hierarchy Of Java Swing Classes,		
29	Swing GUI Components, Related Packages,		
30	Swing Control Classes & Methods,	April	Week 2
31	Handling Events in Swing GUI		
32	Handling Events in Swing GUI		Week 3
33	Handling Events in Swing GUI		
34	Examples		Week 4
35	Examples		Extra
	<i>Suyale</i> Faculty Incharge		

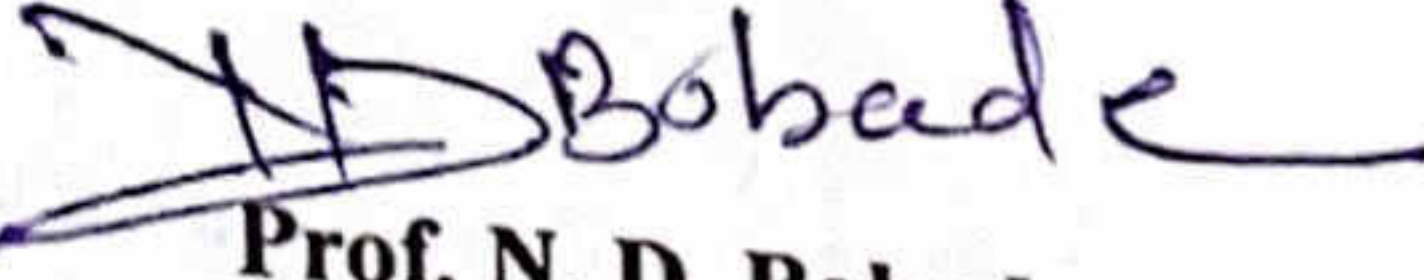
Prof. Ram Meghe Institute of Technology and Research, Badnera
 Department of Master in Computer Application

Practical Lesson Plan

Subject : 20108 DATA STRUCTURES & ALGORITHMS

(Odd Semester AY: 2021-2022) Winter 2021

Sr. No.	Name of Practical	Date			Sign of Faculty	Sign of HOD
		B1	B2	B3		
1	Write a program in C++ for inserting and deleting element from array.	29-12-2021	27-12-2021	28-12-2021		
2	Write a program in C++ for Linear Search and Binary Search.	05-01-2022	03-01-2022	04-01-2022		
3	Write a program in C++ for bubble sort.	12-01-2022	10-01-2022	11-01-2022		
4	Write a program in C++ to check whether the C++ compiler stores 2 dimensional array elements in Row Major or Column major format.	19-01-2022	17-01-2022	18-01-2022		
5	Write a program in C++ to implement the first pattern matching Algorithm.	02-02-2022	24-01-2022	25-01-2022		
6	Write a program in C++ for implementing a linked list using pointers.	09-02-2022	07-02-2022			
7	Write a program in C++ for implementing a stack using linked list and pointers.	16-02-2022	14-02-2022	01-02-2022		
8	Write a program in C++ for evaluation of a postfix expression.	23-02-2022	21-02-2022	08-02-2022		
9	Write a recursive program in C++ a. to generate nth number of fibonacci series b. to find the factorial of a number.	02-03-2022	28-02-2022	15-02-2022		
10	Write a recursive program in C++ for solving the Tower of Hanoi Problem.	09-03-2022	07-03-2022	22-02-2022		
11	Write a program in C++ for implementing a queue	16-03-2022	14-03-2022	08-03-2022		
12	Write a program in C++ for Insertion sort .	23-03-2022	21-03-2022	15-02-2022		
13	Write a program in C++ for Selection sort .	30-03-2022	28-03-2022	22-03-2022		
				29-03-2022		


Prof. N. D. Bobade
 Faculty Incharge

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
 (Odd Semester AY: 2021-2022) Winter 2021
Session/Teaching Plan

Name of Faculty: Prof. Nilima D. Bobade

Year: FYMCA

Section: A/B/DSE

Subject Name: Data Structure and Algorithms

Sem: I

Subject Code:

MCA20102

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject, syllabus, importance etc.	December	Week 4	1
2		Data structures basics			2
3		Mathematical/algorithmic notations & functions,			3
4		Complexity of algorithms, Subalgorithms. String			4
5		processing: storing strings, character data type,		Week 5	1
6		string operations, word processing,			2,3
7		first pattern matching algorithm			4
8		second pattern matching algorithms			1,2
9	Unit II	Linear arrays and their representation in memory,	January	week 2	3
10		inserting operations,			4
11		deleting operations,		Week 3	1
12		Bubble sort,			2
13		Linear search and Binary search algorithms.			3,4
14		Multidimensional arrays, Pointer arrays.		Week 4	1,2
15		Record structures and their memory representation			3
16		.Matrices and sparse matrices			4
17	UNIT III	Linked lists and their representation in memory,	February	week 5	1
18		traversing a linked list,			2
19		searching a linked list.			3
20		Memory allocation & garbage collection.		4	
21		Insertion Operations		week 6	1
22		deletion operations on linked lists.			1,2,3
23	Header linked lists, Two-way linked lists.	Week 2	1,2		
24	Stacks and their array representation.		3		
25	Push & Pop operation		4		
26	Arithmetic expressions: Polish notation.		Week 3	1,2	
27	Evaluation of expression	3			

28	UNIT IV	Quick sort, an application of stacks,	MARCH	Week 4	1
29		Recursion. Tower of Hanoi problem.			2,3
30		Implementation of recursive procedures by stacks			4
31		Queues , Representation of queues, Insert Delete operation			
32	Deque. Priority queues.	Week 1		1	
33	UNIT V	Trees, Binary trees & and their representation in			2,3
34		Traversing binary trees.		Week 2	1
35		Traversal algorithms using stacks,			2,3,4
36		Headernodes: threads.		Week 3	1,2,3
37		Binary search trees, searching,		Week4	1
38		inserting in binary trees			2,3,4
39		deleting in binary trees.		Week 5	1,2,3
40		Heap and heapsort.	week1	1	
41		Path length & Huffman's' algorithm. General trees	Week 2	1,2	
42		Unit VI	Graph theory, sequential representation of graphs,		3,4
43	Linked representation		Week 3	1	
44	Warshalls' algorithm			2	
45	operations & traversing thegraphs.			3	
46	Posets & Topological sorting.		Week4	1	
47	SelectionSort.			2	
48	Insertion Sort			3,4	
49	Merging & Merge-sort		Week 5	1	
50	Radix sort,			2,3	
	Hashing.			4	
			APRIL		

N.D. Bobade

N.D. Bobade
Faculty Incharge

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd/Even Semester AY: 2021-2022)

Session/Teaching Plan

Name of Faculty: **Prof. Vinit A. Sinha**
Subject Name: **Operating System**

Year: **MCA I** Section: **A/B/DSE**

Sem: **I** Subject Code: **MCA20103**

Sr. No	Unit No.	Topics to be Covered	Month	Week	Days
1	Unit I	General Introduction of the subject	December	4	1
2		Operating System Definition			2
3		OS Evolution, OS Components		5	1
4		OS Services.			2
5		Process Concept.		3	
6		Process Scheduling.		January	1
7		Operations on Processes.	2		1
8		Cooperating Processes.			2
9		Inter process Communication.	3		
10		Threads Overview, Threading Issue	4		
11		Java Threads , Multithreading Models.	3		1
12		CPU Scheduling Concepts.		2	
13	Scheduling Criteria and Algorithms.	3			
14	The Critical-Section Problem.	4			
15	Synchronization Hardware.	4	1		
16	Semaphores, Monitors.		2		
17	Deadlocks-Definition & Characterization.		3		
18	Deadlocks Prevention		4		
19	Deadlocks Avoidance	5	1		
20	Detection and Recovery from Deadlock.	February	1	1	
21	Introduction of Memory Management.			2	
22	Swapping, Contiguous Memory			3	
23	Allocation Schemes,			4	
24	Paging Process,		2	1	
25	Need of Segmentation			2	
26	Background, Demand Paging scheme,			3	
28	Process Creation,		4		
29	Page Replacement Policies,		3	1	
30	Allocation of Frames,			2	
31	Thrashing			3	

Sr. No	Unit No.	Topics to be Covered		Days
32	Unit IV	File-System Interface		1
33		Directory structure, File-System Mounting		2
34		File Sharing & Protection.		3
35		File-System Structure		4
36		File-System Implementation		5
37		Directory Implementation		1
38		Allocation Methods		2
39		Free- Space Management		3
40		File Recovery		1
41		File-System Mounting		2
42	Unit V	I/O Systems: Overview	March	3
43		I/O Hardware		4
44		Application I/O Interface		1
45		Kernel I/O Subsystem.		2
46		Transforming I/O to Hardware Operations		3
47		Disk Scheduling		4
48		Disk Management		1
49		Swap – Space Management		2
50		RAID Structure.		3
51		File protection & security		4
52	Unit VI	Goals of Protection	April	1
53		Principles of Protection		2
54		Revocation of Access Rights,		3
55		Security Problem,		1
56		Program Threats		2
57		Classifications,		3
58		Firewalling to Protect Systems		4
59		Implementing Security Defenses		1
60		User Authentication		2

Prof. Ram Meghe Institute of Technology & Research Badnera

Department of Master in Computer Application

Odd Semester AY:2021-2022 (Winter 21)

MCA I Year Semester I

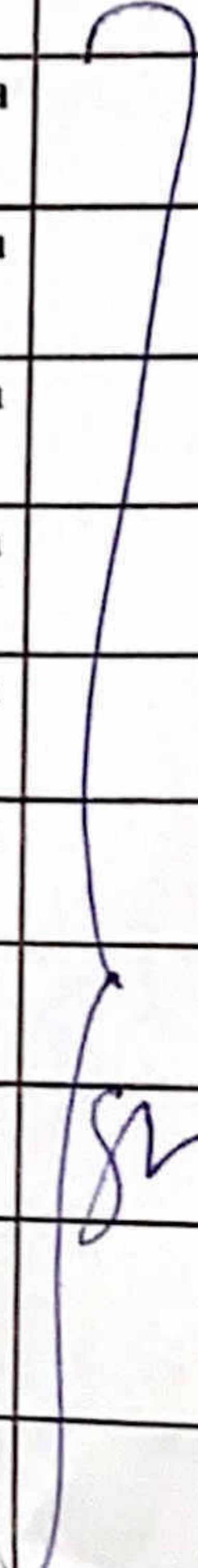
Lesson Plan

Name of Faculty:

Subject Name:

Prof. Vinit Sinha

Operating system LAB

Sr.No	Topics to be Covered	Dates			Sign. of Faculty	Sign. of HOD
		B1	B2	B3		
1	Case Study on – Ubuntu Operating system				Prof. V.A. Sinha	
2	Shell script for Calculator using select statement		28/12/2021		Prof. V.A. Sinha	
3	Perform a Biodata preparation using VIM editor from terminal		04/01/2022		Prof. V.A. Sinha	
4	Shell script to configure Samba File server in Ubuntu		18/01/2022		Prof. V.A. Sinha	
5	Write Shell script program to check whether given file is a directory or not.		01/02/2022		Prof. V.A. Sinha	
6	Write a shell script program to display list of users currently logged in.		08/02/2022		Prof. V.A. Sinha	
7	Write a shell script to assign file permission to given file / folder		22/02/2022		Prof. V.A. Sinha	
8	Write a shell script to display details of running process and threads in system	B1 - 14/03/2022	B2 - 15/03/2022	B3 - 17/03/2022	Prof. V.A. Sinha	
9	Write a Shell script to develop a Fibonacci series.	B1 - 21/03/2022	B2 - 22/03/2022	B3 - 24/03/2022	Prof. V.A. Sinha	
10	Write a Shell script to find the number of words character, words and lines in a file.	B1 - 28/03/2022	B2 - 29/03/2022	B3 - 31/03/2022	Prof. V.A. Sinha	

Signature of in-charge Faculty

Prof. Ram Meghe Institute of Technology & Research Badnera

Department of Master in Computer Application

Odd Semester AY:2021-2022 (Winter 21)

MCA I Year Semester I

Lesson Plan

Sr.No	Topics to be Covered	Date			Sign. of Faculty	Sign. of HOD
		B1	B2	B3		
		Name of Faculty: Prof. S. S. Tayade.				
Subject: Lab-Mathematics and Statistical Techniques.						
1	Program for calculating Factorial using recursive function.		31-12-2021		S. S. Tayade	
2	Program for calculating permutation and combination.		7/1/2022		S. S. Tayade	
3	Program for calculating Matrix Addition		21-01-2022		S. S. Tayade	
4	Program for calculating Matrix Substraction.		28-01-2022		S. S. Tayade	
5	Program for calculating Arithmetic Mean for Group Data And Individual Data		4/2/2022		S. S. Tayade	
6	Program For Calculating Harmonic Mean.		11/2/2022		S. S. Tayade	
7	Program For Calculating Geometric Mean.		14-02-2022		S. S. Tayade	
8	Revision Program for calculating Matrix Addition		21-02-2022		S. S. Tayade	
9	Rivision Program for calculating Matrix Substraction.		28-02-2022		S. S. Tayade	
10	Rivision Program For Calculating harmonic Mean.		4/3/2022		S. S. Tayade	
11	Rivision Program For Calculating Geometric Mean.		11/3/2022		S. S. Tayade	
12	program to find correlation coefficient Using Karl Pearson's.	17-03-2022	16-03-2022	14-03-2022	S. S. Tayade	
13	Rivision program to find correlation coefficient Using Karl Pearson's.	24-03-2022	23-03-2022	21-03-2022	S. S. Tayade	
14	program to find correlation coefficient Using SPEARMAN'S RANK	7/4/2022	05-04-2022	4/4/2022	S. S. Tayade	
15	Rivision program to find correlation coefficient Using SPEARMAN'S RANK.	12/04/2022	15-04-2022	11/4/2022	S. S. Tayade	
16	program to implement moving average method.	21-04-2022	20-04-2022	18-04-2022	S. S. Tayade	
17	program to implemented least square method.	28-04-2022	27-04-2022	25-04-2022	S. S. Tayade	
Signature of in-charge Faculty:						

Prof. Ram Meghe Institute of Technology & Research , Badnera

P.G. Department of Computer Applications (M.C.A.)

Teaching Plan - MCA20105 Mathematics & Statistical Techniques

Submitted By - Prof. S. S. Tayade

Class - 1st Year First Sem

S. No.	Unit	Topic Name	Month	Week	Days
1	Unit-II	Permutations & Combinations: Factorial Notation, Fundamental Theorem	December	week 3	1
2		Definition of Permutations. Definition of Combinations			2
3		Simple examples of commercial application of permutations and combinations.			1
4		Elementary Probability Theory: Concept of random experiment/trial and possible outcomes			2
5		Sample Space and Discrete Sample Space		Week 4	1
6		Events their types			2
7		Algebra of Events			3
8		Mutually Exclusive and Exhaustive Events			4
9		Complimentary events			
10		Classical definition of Probability, conditional probability			
11	Unit-I	Algebraic view - vectors, matrices	January	Week 1	1
12		product of matrix & vector			2
13		rank, null space			3
14		solution of over-determined set of equations			4
15		pseudo- inverse		Week 2	1
16		Norms and spaces			2
17		Eigenvalues and eigenvectors.			3
18		Geometric view - vectors			4
19		distance, projections			
20		eigenvalue decomposition			
21	Measures of central Tendency: Arithmetic mean, Weighted mean	Median, Mode	Week 3	1	
22				Quartiles	2
23					3

24	Unit-IV	Deciles and Percentiles	February	Week 4	4	
25		Locating median and quartiles through Ogives			1	
26		Histogram to locate mode and mean.			2	
27		Numerical problems on central tendency			3	
28		Measures of dispersion: Range, Quartile deviation,		Week 1	1	
29		Mean deviation from mean			2	
30		Standard deviation and their coefficients			3	
31		Unit-III		Numerical problems on Range, quartile deviation, mean deviation.	Week 2	1
32				Functions and Derivatives		2
33				Concept of real functions: constant function		3
34	linear function, x^n , ex , ax , $\log x$.		1			
35	Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function.		Week 3	2		
36	Equilibrium Point, Break-even point.			3		
37	Derivatives of functions: Constant function, x^n , ex , ax , $\log x$.			Week 4	1	
38	Rules of derivatives: Scalar multiplication		2			
39	sum, difference, product		3			
40	quotient (Statements only), simple problems.		4			
41	Unit-V	variance. Definition for grouped & ungrouped data	Week 1	1		
42		co-efficient of Dispersion		2		
43		co- efficient of variation		Week 2	1	
44		Numerical problems on measures of dispersion.			2	
45		Numerical problems on measures of dispersion.	3			
46		Unit-V	Bivariate Linear Correlation	March	Week 2	4
47			Scatter Diagram			1
48			Computation of Karl Pearson's Coefficient of Correlation			2
49			Computation of Spearman's Rank Correlation Coefficient (case of repeated ranks upto 2 repetitions only)		Week 3	3
50			Numerical problems on Bivariate Linear Correlation.			4
51	Bivariate Linear Regression:		1			

52	Unit-VI	Finding Regression lines by method of least squares	April	Week 1	2
53		Properties of Regression Coefficients- i) $r = \sqrt{b_{yx}b_{xy}}$			3
54		ii) (\bar{x}, \bar{y}) is the point of intersection of two regression lines			4
55		Numerical problems on Bivariate Linear Regression			1
56		Time series : Definition of Time series & uses of time series		Week 2	2
57		Components of Time series, Additive & multiplicative models			3
58		Methods of estimating trend by moving average method graphical method, semi-average method			1
59		least square methods.		Week 3	2
60		Numerical problems on Time Series			3

Tayade
 Prof. S. S. Tayade