Department of Civil Engineering					
Semester – IV (Session 2017-2018)					
Subject: Estimating And Costing					
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	General, Importance and Purpose	R.H. Namavati. : Estimating and Valuation	1	Total Lectures for Unit I: 8
	2	Modes and units of measurments as per IS1200		1	
	3	Methods of cost estimating		2	
	4	Methods of Approximate estimates		2	
	5	Specifications, Purpose		2	
II	1	Types of specifications	B.N. Datta : Estimating & Costing – S. Datta Lucknow.	2	Total Lectures for Unit II: 10
	2	Specifications of Irrigation Work Items		2	
	3	Specifications of Road Work Items		2	
	4	Problems on working out quantities		2	
	5	Problems on working out quantities		2	
III	1	Cost building-up : Purpose and principles	V.N. Vazirani, S.P. Chandola: C.E. Estimating & Costing, Khanna Publisher Delhi.	2	Total Lectures for Unit III: 10
	2	Rate Analysis : Importance and factors affecting		4	
	3	Fixed, Variable and Prime costs		1	
	4	Supplimentary and Overhead costs, its allocation		2	
	5	NBO recommendations for Task work , No. of workers		1	
IV	1	Schedule of rates, CSR/DSR	B.N. Datta : Estimating & Costing – S. Datta Lucknow.	2	Total Lectures for Unit IV: 10
	2	Working out quantitits of ingredients for various items of work		2	
	3	Working out quantitits of ingredients for various items of work		2	
	4	Working out quantitits of ingredients for various items of work		2	
	5	Detailed Estimates, Abstract and Measurment Sheets		2	
V	1	NBO recommendations for Task work , No. of workers	B.N. Datta : Estimating & Costing – S. Datta Lucknow.	1	Total Lectures for Unit V: 12
	2	Schedule of rates, CSR/DSR		2	
	3	Working out quantitits of ingredients for various items of work		5	
	4	Detailed Estimates, Abstract and Measurment Sheets		4	
VI	1	Bar Bending Schedule	B.N. Datta : Estimating & Costing – S. Datta Lucknow.	**2**	Total Lectures for Unit V: 12
	2	Detailed estimate of Framed Structure		**4**	
	3	Earthwork calculations		**3**	
	4	Detailed estimate of building		**2**	
	5	Earthwork for Road		**1**	
			Total Lectures Required	**52**	

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 plubication	1	Total Lectures for Unit I: 5
	2	Method of drawing – Selection ofscales for various drawings, types		1	
	3	Abbreviations & graphical symbols used in Civil EngineeringDrawing		2	
	4	Combined first angle & third anglemethod of projection.		1	
II	1	Layout of sheet for civil engineering drawing	Shah, Kale & Patki, Building Planning & Drawing, Tata McGraw-Hill plubication	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	Necessityand use of working drawing.		1	
III	1	Concept of site plan, block plan andlayout plan. Importance and detail	Dr. Kumar Swamy & Rao Swamy, Charotar publications	1	Total Lectures for Unit III: 6
	2	Developing workingdrawing and foundation plan for load bearing		1	
	3	Planning of residential building. Introduction, general principleso		1	
	4	Planning of residential building. Introduction, general principleso		2	
	5	Climate and design consideration. Orientation of buildings		1	
IV	1	Building rules and by laws, for residential buildings, conversionof	Shah, Kale & Patki, Building Planning & Drawing, Tata McGraw-Hill plubication	1	Total Lectures for Unit IV: 6
	2	Types of public building and their requirements, planning of publicb		2	
	3	Preparing line plans of different public buildings suchas schools,		2	
	4	Free-hand sketching : Importancein Civil engineering.		1	
	5	Perspective drawing		1	
			Total Lectures Required	**23**	

Department of Civil Engineering					
Semester – IV (Session 2018-2019)					
Subject: Fluid Mechanics - I					
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	Forces on immersed areas- Plane	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit II: 8
	2	Forces on immersed areas- Curves		1	
	3	Buoyancy, Equilibrium of floating body		1	
	4	Metacenter & Metacentric height		1	
	5	Types of flow, Eulerian approach of describing fluid motion		1	
	6	Velocity potential		1	
	7	Stream function		1	
	8	Continuity equation		1	
III	1	Eulers equation of motion	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit III: 8
	2	Bernoulli's equation		2	
	3	HGL, EGL, Velocity distribution		1	
	4	Energy & Momentum correction factor		1	
	5	Momentum equation		1	
	6	Forces on pipe bends		2	
	1	Venturi meter & Orifice meter	Fluid Mechanics: R.K.Bansal	2	
	2	Pitot tube, Circular orifice & mouthpieces		2	

IV	3	Rectangular notch	Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit IV: 8
	4	Triangular notch		1	
	5	Trapezoidal notch & Cipolletti weir		1	
	6	Velocity of approach & Fancies equation		1	
V	1	Laminar flow through circular pipes		2	Total Lectures for Unit V: 8
	2	Velocity distribution		1	
	3	Hayegen Puiseuille equation		2	
	5	Reynold's no., Boundary layer		2	
	6	Nominal, energy, momentum & displacement thickness		1	
VI	1	Drag and lift		1	Total Lectures for Unit VI: 8
	2	Calculation of drag & lift on cylindrical bodies		1	
	3	Darcy weisbach equation		1	
	4	Major & minor losses		2	
	5	Pipe in series & Parallel		1	
	6	Equivalent pipe		1	
	7	Water hammer in pipes		1	
			Total Lectures Required	**48**	

Department of Civil Engineering					
Semester – V (Session 2018-2019)					
Subject: Fluid Mechanics - II					
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	Karman-prandtl's equation	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	2	Total Lectures for Unit I: 8
	2	Nikuradse's experiment		2	
	3	Velocity distribution laws & Universal resistance laws		2	
	4	Hydraulitically smooth & rough pipes		2	
II	1	Uniform flow, open channel flow	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit II: 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	
III	1	Gradually varied flow, dynamic equation	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	1	Total Lectures for Unit III: 8
	2	Analysis of surface profile		2	
	3	Rapidly varied flow		2	
	4	Hydraulic jump		2	
	5	Relation between conjugate depths		1	
IV	1	Buckingham's pie theoram	Fluid Mechanics: R.K.Bansal Fluid Mechanics: R.K.Rajput	3	Total Lectures for Unit IV: 8
	2	similitude		1	
	3	Dimensionless no.		1	
	4	Geometrically similar models		1	
	5	Reynolds law		1	
	6	Froudes law, model study of spillway		1	
	1	Impact of jet on stationary & moving plates		2	Total Lectures
	2	Symmetrical and asymmetrical curve vanes		1	

V	3	Moment of momentum equation		2	for Unit V: 8
	5	Hydraulic turbines- Pelton wheel & Francies		2	
	6	Work done power & efficiency, Specific speed of turbine		1	
VI	1	Classification of pump, Centrifugal pump		2	Total Lectures for Unit VI: 8
	2	Velocity diagram, work done, efficiency		1	
	3	Reciprocating pump		2	
	4	Jet pump		1	
	5	Submersible pump		1	
	6	Hydraulical ramp		1	
	7	Priming of pump		1	
			Total Lectures Required	**48**	

Department of Civil Engg					
Semester –VI (Session 2017-18)					
Subject: Environment & 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	The nature, scope and components of environmental management.	By R K Jain Abbasi AND Ramesh NPTL	1	Total Lectures for Unit I: 6
	2	Environmental impact analysis		1	
	3	need and importance		1	
	4	step involved methods of EIA		1	
	5	public participation and communication.		2	
II	1	Environmental policy analysis- micro level and macro level	By R K Jain Abbasi AND Ramesh NPTL	1	Total Lectures for Unit II: 5
	2	methods of policy analysis, steps involved. : Operational methods		1	
	2	quantitative methods		1	
	3	statical analysis public policy analysis resource allocation		1	
	4	environmental economics etc		1	
III	1	Environmental management plan (EMP)	By R K Jain Abbasi AND Ramesh NPTL	2	Total Lectures for Unit III: 6
	2	components of Environmental Management Plan		2	
	3	Preparation of Environmental Management Plan		2	

IV	1	Environmental Legislation and Acts	By R K Jain Abbasi AND Ramesh NPTL	1	Total Lectures for Unit IV: 6
	2	Water (prevention and control of pollution) Act1974,Air (prevention and control of pollution) Act 1981, Environmental protection Act (EPA) 986		1	
	3	Hazardous waste rules1989, Factory Act 1984 amendments in 1987		1	
	4	Environmental Management System: ISO 14000(EMS)		1	
	5	Environmental Audits: methods		1	
	6	Environmental Audits: components and preparation		1	
V	1	Various agencies for Environmental Managements in India	By R K Jain Abbasi AND Ramesh NPTL	1	Total Lectures for Unit V: 6
	2	Ministry of environment and forest		1	
	3	central pollution control boards, state pollution control boards		1	
	4	, local bodies, - their scopes,		1	
	5	organizational and functional issues		1	
	6	organizational and functional issues their working		1	
VI	1	Basics of Data Base Management System (DBMS)	By R K Jain Abbasi AND Ramesh NPTL	2	Total Lectures for Unit V: 6
	2	Geographic Information System (GIS)		2	
	3	remote sensing in Environmental Management. Information of software for EIA		2	
			Total Lectures Required	**35**	

Department of Civil Engineering

Semester – I (Session 2019-2020)

Subject: **Transportation Engg –I**

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	Development and planning, road transports charactoristics	Highway Engineering Khanna & Justo	1	Total Lectures for Unit I: 7
	2	classification of Roads, Road development plans & Salient features		1	
	3	Road Transport characteristics		1	
	4	Road pattern		1	
	5	Egg. Survey for highway.		1	
	6	Material And Testing, Various properties of aggregates		1	
	7	Egg. Survey for highway, bituminous materials and Test		1	
II	1	cross sectional elements, cross section elements	Highway Engineering Khanna & Justo	2	Total Lectures for Unit II: 5
	2	Right of way, Camber, Gradient		1	
	3	PIEV Theory, transition curves, vertical alignment		1	
	4	Design of summit and valley curves, IRC Standards for Geometric design		1	
III	1	Components of Flexible and Rigid pavement	Highway Engineering Khanna & Justo	2	Total Lectures for Unit III: 8
	2	Flexible pavement design by C.B.R. Method		1	
	3	Westergards analysis for wheel load & Temperature stresses in rigid pavement		1	
	4	Rigid pavement by IRC method (As per IRC-37),		1	
	5	Combination of stresses, Joints in Rigid Pavement		1	
	6	Construction And Maintenance – WBM Surface dressing		1	
	7	Bituminous roads, cement concrete Pavement, construction procedure		1	
IV	1	Traffic Characteristics	Highway Engineering Khanna & Justo	1	Total Lectures
	2	Traffic studies, road parking system		2	
	3	accident study,		1	

	4	motor vehicle Act & Rule		1	for Unit IV: 6
	5	traffic control devices,		1	
V	1	Component, classification and identification	Highway Engineering Khanna & Justo	1	Total Lectures for Unit V: 6
	2	data collection, site selection, economic span		1	
	3	At grade intersections – clover leaf, diamond, 3 E's of traffic		2	
	4	marking, signs, signals, island its type, rotary intersections & design elements		2	
VI	1	different structural form – culverts, causeways	Highway Engineering Khanna & Justo	1	Total Lectures for Unit V: 6
	2	major and minor bridges		1	
	3	types of foundation, abutments, piers and wing wall bearing their types and choices		2	
	4	Erection of bridge superstructure		1	
	5	regulation for driving motor vehicle		1	
			Total Lectures Required	**36**	

Department of Civil Engineering					
Semester – IV (Session 2017-2018)					
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 2017-2018)					
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.		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 undereamed 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	Design of cantilever and counterfort retaining wall		1	
	5	Coffer dam purpose, various types and their suitability		1	
	6	Numericals		2	
Total Lectures Required				**44**	

Department of Civil Engineering					
Semester – VIII (Session 2017-2018)					
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 machinary, material, money, inventory.		2	
II	1	Rockfill dam : Introduction	Sherard et al : Earth and Rockfill Dam, John Wiley, New York.	1	Total Lectures for Unit II:**6**
	2	General characteristics		1	
	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.	1	Total Lectures
	2	Foundation treatment including uplift consideration		1	

	3	Bank connection, energy dissipation, hydraulic design of opening and barrel, ventilation, types of gates.	Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi.	2	for Unit V: **7**
	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 2017-18)					
Subject: Transportation Engg II					
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	Railway Transportation, Classification of railway	S.C.SAXENA S.P.ARORA NPTL	1	Total Lectures for Unit I: 6
	2	Track sections in embankment `		1	
	3	Track sections in cutting		1	
	4	TRack Std Terminology, Traction		1	
	5	Tractive Resistances		2	
II	1	Survey	S.C.SAXENA S.P.ARORA NPTL	1	Total Lectures for Unit II: 8
	2	Permanent Way c/s		1	
	2	Rails, Sleepers		1	
	3	Sleeper Density		1	
	4	Problems On Sleeper		1	
	5	Coning Of Wheel,		1	
	6	Rail Section		2	
III	1	Points and crossing Left & right hand turnouts	S.C.SAXENA S.P.ARORA NPTL	2	Total Lectures for Unit III: 8
	2	design calculations for turnout & cross over		2	
	3	types of Track junction, long welded rails. Station and yards : types, function, facilities & equipment		1	
	4	Railway signalling and interlocking: objects, classification		1	
	5	types of signals		1	
	6	, control & movement of trains.		1	

IV	1	Various surveys to be conducted, airport site selection	S.C.SAXENA S.P.ARORA NPTL	1	Total Lectures for Unit IV: 6
	2	Airport drainage		1	
	3	Aeroplane component parts, Aircraft characteristics		1	
	4	Airport obstructions: Zoning laws, imaginary surfaces approach		1	
	5	turning zone Runway and Taxiway design		1	
	6	wind rose diagram		1	
	7	basic runway length and corrections			
V	1	Airport Markings	S.C.SAXENA S.P.ARORA NPTL	1	Total Lectures for Unit V: 7
	2	Airport lighting		1	
	3	Airport terminal		1	
	4	Aircraft parking & parking system		1	
	5	taxiway and other areas		1	
	6	Airport traffic contro		1	
	7	instrumental landing systems accidents in the air.		1	
VI	1	Tunnel imoportance, Neccesity	S.C.SAXENA S.P.ARORA NPTL	1	08
	2	Methods of tunneling in soft ground		1	
	3	tunneling methods		1	
	4	Needle beam method		1	
	5	Tunnel lining, drainage		2	
	6	ventilation & lighting of tunnels		2	
			Total Lectures Required	**43**	

Department of Civil Engineering					
Semester – VII (Session 2017-2018)					
Subject: Environmental Engineering-I					
SUBJECT TEACHER: Prof. R. S. Adhau					
Unit No.	**Topic No.**	**Topic with detail course outlines**	**Text and References**	**No. of Periods Allotted**	**Remark**
I	1	Quantity Estimation of water: Demand of water Consumption for various purposes.	Water Supply Engineering- S. K. Garg	1	Total Lectures for Unit I: 7
	2	Fire Demand, Per capita demand. Factors affecting consumption.		2	
	3	Fluctuation in demand. Design period, forecasting population.		2	
	4	Sources: Surface sources, ground water sources		1	
	5	Infiltration Galleries, Relative merits of sources		1	
II	1	Water quality: Impurities in water, their effects and significance.	Water Supply Engineering- S. K. Garg	1	Total Lectures for Unit II: 10
	2	Water borne diseases, collection of water samples.		1	
	3	Water analysis- physical		2	
	4	chemical and bacteriological		1	
	5	Water quality standards: I.S. & WHO		1	
	6	Flow diagrams and layouts of different water treatment works		2	
	7	Intakes- type, location, requirement & features		2	
III	1	Aeration: Purpose, types of gravity aerators & spray aerators	Water Supply Engineering- S. K. Garg	1	Total Lectures for Unit III: 7
	2	Sedimentation: Plain and with coagulation		1	
	3	Different coagulants used, dose of coagulant, Jar test,		1	
	4	Flocculation, Clarrifloculator		1	
	5	Design criteria for sedimentation tanks, surface loading		1	
	6	Simple problems on design of sedimentation tanks		2	
IV	1	Filtration :- Rapid sand and slow sand filters	Water Supply Engineering- S. K. Garg	1	Total Lectures for Unit IV: 7
	2	Filter media, Rate of filtration,		1	
	3	Under drainage system and washing process		1	
	4	Control system, Negative head		1	
	5	operating difficulties		1	
	6	Simple design problems on rapid sand filters		2	
V	1	Disinfection :- Requirement of good disinfectant	Water Supply Engineering- S. K. Garg	1	Total Lectures for Unit V: 8
	2	methods of disinfection		1	
	3	Chlorination: Methods, prechlorination, post chlorination		1	
	4	Break point chlorination and super chlorination, forms of chlorine		2	
	5	Use of bleaching powder - Simple problems.		2	
	6	Introduction to tertiary treatments-Softening and Defloridation.		1	
	1	Distribution system: - Types of supply: Continuous, and intermittent	Water Supply Engineering- S. K. Garg	**1**	Total Lectures for Unit VI: 6
	2	Types of system: Gravity, Pumping and combined gravity and pumping, Layouts of distributions system.		**2**	

VI	**3**	Maintenance of distribution system		**1**	
	4	Equalising storage, Type of storage reservoirs, capacity		**1**	
	5	Types of conduits, joints, appurtenances. Pipe laying and testing.		**1**	
			Total Lectures Required	**45**	

Department of Civil Engineering					
Semester – VII (Session 2017-2018) Section C					
Subject: Structural Design II (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**	Introduction of Flat Slab-1	Jain, A. K., Reinforced Concrete Jaikrishna and Jain, Plain and Reinforced Concrete, Volume I and II Sinham S. N., Reinforced Concrete Dr. Shah V.L. & Karve S.R.: Limit State Design.	1	Total Lectures for Unit I: 11
	2	Design of Flat Slab		5	
	3	Design of Cantilever Retaining Wall		3	
	4	Design of Countrfort Retaining Wall		2	
II	**1**	Design of Combine Footing	Jain, A. K., Reinforced Concrete Jaikrishna and Jain, Plain and Reinforced Concrete, Volume I and II Sinham S. N., Reinforced Concrete Dr. Shah V.L. & Karve S.R.: Limit State Design.	5	Total Lectures for Unit II: 10
	2	Complete design of simple, small structures like Canopies & Parking shed		5	
III	**1**	Introduction to Prestress Concrete	Edward G. Nawy "Prestressed Concrete- A fundamental Approach", Prentice Hall Lin, T. Y. and Burns N. H., Design of Prestressed Concrete Structures, John Wiley and Sons Krishna Raju, N.; Prestressed Concrete Structures; TMH; Delhi	3	Total Lectures for Unit III: 11
	2	Analysis of Prestress Beam		4	
	3	Losses in Prestress Concrete		4	
IV	**1**	Design of Prestress Beam	Managerial Economics- Dr. D.M. Mithani HP Managerial Economics- Grrtika Managerial Economics- Ahuja	3	Total Lectures for Unit IV: 10
	2	Design of Prestress Slab		3	
	3	Design of water tank		4	
			Total Lectures Required	**42**	

Department of Civil Engineering					
Semester – VI (Session 2017-2018) Section C					
Subject: Structural Design I (6CE02)					
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. Subrramanyam, 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 Analyasis		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. Subrramanyam, 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. Subrramanyam, 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. Subrramanyam, 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 – VII (Session 2017-2018)

Subject: ACT					
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	Admixtures and construction chemicals: Introduction, admixtures, plasticizers (Water reducers), action of plasticizers,	Concrete technology by MS shetty	1	Total Lectures for Unit I: 6
	2	Dispersion, retarding effect, superplasticizers (High range water reducers), site problems in the use of plasticizers,		1	
	3	Retarders, accelerators, air-entraining admixtures, pozzolanic or mineral admixtures, fly ash, silica fume, rice husk ash, metakaolin,		1	
	4	Ground granulated blast furnace slag (GGBFS), damp and water proofing admixtures		1	
	5	Protective materials and their properties as moisture barrier systems, above-grade and below grade water proofing of concrete structures		1	
	6	Thermal protection coating, IS code provisions for admixtures		1	
II	1	Durability of concrete: Introduction, strength and durability relationship	Concrete technology by MS shetty	1	Total Lectures for Unit II: 6
	2	Volume change in concrete,		1	
	3	Significance of durability		1	
	4	Impact of water cement ratio on durability, factors affecting durability, methods of predicting durability		1	
	5	IS code provisions for durability of concrete		1	
	6	Interaction between permeability, volume change and cracking.		1	
III	1	Deformation in concrete: Introduction, deformation of concrete in Indian climate, permeability	Concrete technology by MS shetty	1	Total Lectures for Unit III: 6
	2	Interaction between permeability, volume change and cracking		1	
	3	Factors contributing cracks in concrete		1	
	4	Sulphate attack, alkali aggregate reaction		1	
	5	Corrosion of embedded steel, controlling measures, corrosion inhibitors, coatings to embedded reinforcement		1	
	6	Corrosion resistant steels, cathodic protection systems.		1	
IV	1	Special concrete and concreting techniques	Concrete technology by MS shetty	1	Total Lectures for Unit IV: 7
	2	Introduction to special concrete, Lightweight, aerated, no-fines		1	
	3	High density, fibre reinforced		1	
	4	Polymer, prepacked, self-compacted (self leveled), and high volume fly ash (HVFA) concrete		1	
	5	Introduction to special concreting techniques, Gunite or shotcrete, ferrocement		2	
	6	Roller compacted concrete, and ready mix concrete casting and applications		1	
V	1	Repairs and rehabilitations:	Concrete technology by MS shetty	1	Total Lectures for Unit V: 7
	2	Introduction, need for repairs, crack width, construction chemicals- curing compounds		1	
	3	Surface hardeners, polymer modified mortar, bond aid for plasters, guniting aid, silicon based water repellent materials,		1	
	4	Protective and decorative coatings		1	
	5	Injection grout for cracks, coatings for embedded reinforcement concrete		2	
	6	Repair systems, stages of repair works.		1	
VI	1	Non-destructive testing of concrete	Concrete technology by MS shetty	1	Total Lectures for Unit VI: 7
	2	Introduction, rebound hammer, limitations, rebound number and strength of concrete		1	
	3	Penetration technique, pullout test, resonant frequency, pulse velocity method,		1	
	4	Corrosion analyser, rebar locators		1	
	5	Introduction to precast concrete, materials and their characteristics, features,		2	
	6	Precast concrete structure, type of structure, various precast element and their uses, types of connection		1	
			Total Lectures Required	**39**	

Department of Civil Engineering
Semester – V (Session 2017-2018)
Subject: RCC II
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	Design of circular tanks with rigid base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit I: 7
	2	Design of circular tanks with rigid base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)		1	
	3	Design of circular tanks with rigid base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)		1	
	4	Design of circular tanks with flexible base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)		1	
	5	Design of circular tanks with flexible base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)		1	
	6	Design of circular tanks with flexible base resting on firm ground by working stress method. (By IS code Method, IS 3370-2009)		1	
	7	Design of circular tanks with rigid base resting on firm ground by Limit State method. (By IS code Method, IS 3370-2009)		1	
II	1	Introduction to limit state method,	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit II: 7
	2	Basic concept of singly reinforced and flanged beams,		1	
	3	Basic concept of singly reinforced and flanged beams		1	
	4	Basic concept of doubly reinforced and flanged beams		1	
	5	Analysis and design of one way single span and continuous slabs.		1	
	6	Analysis and design of one way single span and continuous slabs.		1	
	7	Analysis and design of one way single span and continuous slabs.		1	
III	1	Analysis and design of two way solid slabs.	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit III: 7
	2	Analysis and design of two way solid slabs		1	
	3	Analysis and design of two way solid slabs		1	
	4	Analysis and design of two way solid slabs		1	
	5	Staircases, Design of Dog legged type staircase only.		1	
	6	Staircases, Design of Dog legged type staircase only.		1	
	7	Staircases, Design of Dog legged type staircase only.		1	
IV	1	Transfer of load from slab on beam	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit IV: 7
	2	Analysis and complete design of beams,		1	
	3	Analysis and complete design of beams		1	
	4	Analysis and complete design of beams		1	
	5	Rectangular and flanged sections for bending moment and shear.		2	
	6	Rectangular and flanged sections for bending moment and shear.		1	
	7	Rectangular and flanged sections for bending moment and shear.		1	
V	1	Transfer of load from beam on column. Analysis and design of columns for axial load, uniaxial (Problem on uniaxial bending only	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit V: 7
	2	Transfer of load from beam on column. Analysis and design of columns for axial load, uniaxial (Problem on uniaxial bending only		1	
	3	Transfer of load from beam on column. Analysis and design of columns for axial load, uniaxial (Problem on uniaxial bending only		1	
	4	Transfer of load from beam on column. Analysis and design of columns for axial load, uniaxial (Problem on uniaxial bending only		1	
	5	Design of Isolated footings: Square and rectangular footings of uniform depth subjected to axial load only.		2	
	6	Design of Isolated footings: Square and rectangular footings of uniform depth subjected to axial load only.		1	
	7	Design of Isolated footings: Square and rectangular footings of uniform depth subjected to axial load only.		1	
VI	1	Design of grid slab by I.S. code method.	**Dr.Shah V.L. &Karve S.R.: Limit State Design**.	1	Total Lectures for Unit VI: 7
	2	Design of grid slab by I.S. code method.		1	
	3	Design of grid slab by I.S. code method.		1	
	4	Detailing for earthquake resistant construction. Introduction, Cyclic behavior of concrete and reinforcement		1	

	5	Detailing for earthquake resistant construction. Introduction, Cyclic behavior of concrete and reinforcement		2	
	6	Significance of Ductility, Ductile detailing for beams, Columns, joints & shear walls.		1	
	7	Significance of Ductility, Ductile detailing for beams, Columns, joints & shear walls.		1	
			Total Lectures Required	**42**	

Department of Civil Engineering					
Semester – VI (Session 2017-2018)					
Subject: TE II					
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	Railway transportation, classification Railway surveying and tractive effort.	**Saxena & Arora : Railway Engineering.** ,	1	Total Lectures for Unit I: 6
	2	Track standard terminology, track sections in embankment & cutting		1	
	3	High speed trains		1	
	4	Traction and tractive resistance		1	
	5	Hauling capacity		1	
	6	Locomotives, different types of traction		1	
II	1	Permanent way: requirement, gauges	**Saxena & Arora : Railway Engineering.**	1	Total Lectures for Unit II: 6
	2	Coning of wheels, components of permanent way,		1	
	3	Rail types and functions, defects in Rails, Rail joints		1	
	4	Sleeper density, Rail fixtures & fastening		1	
	5	Geometric design of railway track, gauge,		1	
	6	Cant deficiency, negative superelevation, grade compensation, curves, Railway accidents and causes.		1	
III	1	Points and crossing Left & right hand turnouts, ,	**Saxena & Arora : Railway Engineering.**	1	Total Lectures for Unit III: 6
	2	Design calculations for turnout & cross over		1	
	3	Types of Track junction,		1	
	4	Long welded rails. Station and yards- types, function		1	
	5	Facilities & equipment. Railway signaling and interlocking,		1	
	6	Objects, classification & types of signals, control & movement of trains.		1	
IV	1	Development of air transportation in India, characteristics. and Taxiway design: length and corrections,	**Khanna S.K., Arora M.G., Jain S.S. : Airport Planning & Design**	1	Total Lectures for Unit IV: 6
	2	Agencies controlling national & international aviation		1	
	3	Various surveys to be conducted, airport site selection, Airport drainage, Aeroplane component parts, Aircraft		1	
	4	Airport obstructions: Zoning laws, imaginary surfaces approach and turning zone Runway		1	
	5	Orientation of runway, wind rose diagram, basic runway		1	
	6	Geometric design standards.		1	
V	1	Airport layout, Terminal area, Terminal area	. **Khanna S.K., Arora M.G., Jain S.S. : Airport Planning & Design**	1	Total Lectures for Unit V: 6
	2	unit terminal concept, Apron, Apron layout		1	
	3	Aircraft parking & parking system		1	
	4	Visual aids, Airport parking & lighting of runway		1	
	5	taxiway and other areas		1	
	6	Airport traffic control, need of control aids, instrumental landing systems, accidents in the air.		1	
VI	1	Tunnels necessity, types, tunnel economics, in	**Srinivasan : Tunnel Engineering**	1	Total Lectures for Unit VI: 6
	2	tunnel alignment, tunneling methods soft soil & hard rock		1	
	3	Needle beam method,		1	
	4	Drift method		1	
	5	Size and shape of tunnels		1	
	6	Tunnel lining, drainage, ventilation & lighting of tunnels.		1	
			Total Lectures Required	**36**	

Department of Civil Engineering					
Semester – IV (Session 2017-2018)					
Subject: Surveying 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	Necessity Purpose, Geodetic & Plane Surveying, Classification of survey	Surveying & Levelling, Part I&II-T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit I: 6
	2	Principles of surveying, instruments for measurement of distances, Ranging out, Direct & indirect ranging.		2	
	3	Chain surveying: basic definition, principle, selection of survey station		1	
	4	Limiting length of offsets, degree of accuracy of offsets, use of cross staff		1	
	5	Obstacles in chaining, plotting of chain survey work		1	
II	1	Introduction to Cross staff survey	Surveying & Levelling, PartI&II-T.P. Kanetkar & Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit II: 6
	2	Instruments for measurement of angles: Prismatic compass, surveyor's compass		1	
	3	Their use and adjustments. Traversing with chain and compass,		1	
	4	Reference meridians, bearing and azimuths. Local attraction, magnetic bearings		1	
	5	Open & closed traverses.		1	
	6	Adjustment of closed traverse - Bowditch's Graphical method.		1	
III	1	Instruments for measurement of elevation: Dumpy level	Surveying & Levelling, Part I&II-T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit III: 8
	2	Tilting and automatic level.		1	
	3	Temporary and permanent adjustments of Dumpy and tilting level.		1	
	4	Leveling: Definition of terms, Principle		1	
	5	leveling methods, leveling staffs, Booking And reduction of field notes, curvature and refraction,		2	
	6	Reciprocal leveling, plotting of profiles		1	
	7	Details of their construction. Temporary and permanent adjustments of level & Errors in leveling		1	
IV	1	Contouring: Definition, Characteristics and uses of contour maps	Surveying & Levelling, Part I&II-T.P. Kanetkar& Kulkarni, Surveying I&II	1	Total Lectures for Unit IV: 6
	2	Methods of contouring.		1	
	3	Numericals on Levelling – I		2	
	4	Numericals on Levelling – II		2	
V	1	Introduction to Vernier and Microscopic theodolite	Surveying & Levelling, Part I&II-T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit V: 8
	2	Temporary adjustment & Permanent adjustment of vernier theodolite.		1	
	3	Measurement of horizontal and vertical angle with transit theodolite		1	
	4	Other uses of theodolite.		1	
	5	Theodolite traversing : Latitude and departure.		2	
	6	Numericals on Theodolite traversing		2	
VI	1	Plane tabling : Equipments, methods	Surveying & Levelling, Part I&II-T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying &	1	Total Lectures for Unit VI: 6
	2	Two point and three point problems,		1	
	3	Advantages & disadvantages of plane tabling		1	
	4	Lehman's rules. Total station – construction,		1	
	5	working and uses of total station		1	

	6	Digital planimeter-working and use	Levelling – N.N. Basak	1	
			Total Lectures Required	**40**	

Department of Civil Engineering					
Semester – V (Session 2017-2018)					
Subject: Surveying II					
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	Introduction to Tacheometry Survey	Surveying & Levelling, Part I&II- T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit I: 8
	2	Methods of Tachometric Survey- Stadia Method, Fixed Hair and Movable hair Method and Tangential method of tachometry		2	
	3	Formulas for distances calculation		1	
	4	Theory and Derrivation of Anallatic lenses		1	
	5	Beamans Stadia Arc and other Methods		1	
	6	Auto reduction tacheometer such as jeffcot hammer and other methods		2	
II	1	Introduction and classification of curves	Surveying & Levelling, PartI&II- T.P. Kanetkar & Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit II: 8
	2	Degree of curve, Elements of simple Circular curve and Compound Curve		1	
	3	Theory and Methods of Setting out Simple Circular Curve		2	
	4	Instrumental Method of setting out Compound Curve		1	
	5	Vertical Curves, Their Types and setting out method of vertical Curve		1	
	6	Ideal Transition Curve, Characteristics and Requirement of Transition Curve. Methods of determination of length, Elements of different types of transition curve.		2	
III	1	Triangulation : Principles, classification of triangulation system, Triangulation figures, their choice of station	Surveying & Levelling, Part I&II- T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia, Surveying & Levelling – N.N. Basak	1	Total Lectures for Unit III: 8
	2	Tower, Signal & phase of signals		1	
	3	Reconnaissance, Intervisibility, Angular measurements.		1	
	4	Base line and its measurements. Basenet & it's extension		1	
	5	Adjustment of field Observation, Errors in Observation, Method of leas		2	
	6	Weighted observations, Figure adjustment (Triangle only)		2	
IV	1	Hydrographic surveying: Necessity & Controls	Surveying & Levelling, Part I&II- T.P. Kanetkar& Kulkarni, Surveying I&II	1	Total Lectures for Unit IV: 6
	2	Shore line Surveys, gauges, Sounding equipment's and Procedure of taking sounding		1	
	3	Analytical and graphical methods: Station pointer		2	
	4	Introduction to Underground Survey Correlation of surface and underground surveys; Weisbach triangle, transferring surface level to undergoround.		2	
V	1	Introduction and technical terms in Photogrammetry	Surveying & Levelling, Part I&II- T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia,	1	Total Lectures for Unit V: 6
	2	Flight planning and height from parallel measurement		2	
	3	Relief, relief displacement, Number of Photographs required and their Numericals		2	
	4	Introduction and Application of Remote Sensing		1	
	1	Field Astronomy: Elements of spherical trigonometry		1	

VI	2	Napier's rules of circular parts, celestial sphere, astronomical terms, Astronomical triangle, co-ordinate systems.	Surveying & Levelling, Part I&II- T.P. Kanetkar& Kulkarni, Surveying I&II – B.C. Punmia,	2	Total Lectures for Unit VI: 6
	3	GIS & GPS: Components of geographical information System		1	
	4	Advantages, function of GIS, advantages and disadvantages, Global po		1	
	5	GPS), introduction, definitions, GPS receivers, antenna, advantages of		1	
			Total Lectures Required	**42**	

Department of Management Studies

Semester – VIII (Session 2017-2018)

Subject: Water Resources Engineering-II

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	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 for Unit III: 6
	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	
	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.		1	Total Lectures

	2	Water Management : Water management and distribution, cooperative water user's organization, warabandi, conjunctive use of water.	Garg S.K. : Irrigation & Water Power Engg.	1	for Unit V: 6
	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**	

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Discrete Structure (3IT03)
Name of Faculty: - Prof. A. A. Gulhane
Semester :- III **Section :-** B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	04-Jul-17	Statements	9
2	05-Jul-17	Notation	
3	06-Jul-17	Connectives	
4	08-Jul-17	Normal forms	
5	11-Jul-17	Inference Rule	
6	12-Jul-17	The theory of inference for the statement calculus	
7	13-Jul-17	Predicate calculus and Problems	
8	15-Jul-17	The Theory of the Predicate calculus	
9	18-Jul-17	Logical Operations	
		Unit-2	
10	19-Jul-17	Basic concepts of Set	8
11	20-Jul-17	Venn Diagram Representation	
12	22-Jul-17	Representation of Discrete Structure	
13	25-Jul-17	Relation	
14	26-Jul-17	Ordering of Set	
15	27-Jul-17	Functions	
16	29-Jul-17	Recursive function.	
17	01-Aug-17	Sets & Predicates	
		Unit-3	
18	02-Aug-17	Algebraic Systems	8
19	03-Aug-17	Semi groups	
20	05-Aug-17	Monoids	
21	08-Aug-17	Abelian Group, Cosets & Lagrange's Theorem	
22	09-Aug-17	Grammars	
23	10-Aug-17	Languages	
24	12-Aug-17	Polish expression	
25	16-Aug-17	Polish expression & their compilation.	
		Unit-4	
26	19-Aug-17	Lattices.	8
27	22-Aug-17	Partially ordered sets	
28	23-Aug-17	Lattices as an Algebraic system	
29	24-Aug-17	Boolean Algebra	
30	26-Aug-17	Boolean Functions	
31	29-Aug-17	Representation of Boolean Functions	
32	30-Aug-17	Minimization of Boolean Functions	
33	31-Aug-17	K- Map Representation	

		Unit-5	
34	02-Sep-17	Graph Theory Basic concepts	10
35	05-Sep-17	Graph Theory Paths	
36	06-Sep-17	Graph Theory reach ability	
37	07-Sep-17	Graph Theory connectedness.	
38	09-Sep-17	Matrix representation of graphs	
39	12-Sep-17	Storage Representation and Manipulation of graph	
40	13-Sep-17	Trees	
41	14-Sep-17	Trees Traversal	
42	16-Sep-17	Minimal spanning trees	
43	19-Sep-17	PERT	
		Unit-6	
44	20-Sep-17	Computability theory	6
45	21-Sep-17	Finite state machines,	
46	23-Sep-17	Finite state acceptors	
47	26-Sep-17	Regular grammars.	
48	27-Sep-17	Turning machines	
49	28-Sep-17	Partial recursive functions	
50	06-Oct-17	Remedial classes and Improvement Session	Content beyond Syllabus
51	07-Oct-17	Remedial classes and Improvement Session	

Faculty: - Prof. A. A. Gulhane

HOD
(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

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

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	3/7/2017	Introduction to embedded systems	8
2	5/7/2017	Processor in the system, types of processor	
3	8/7/2017	Hardware units required in the exemplary cases	
4	10/7/2017	Software embedded into a system Final Machine implement able software for a product	
5	12/7/2017	Software in Processor specific assembly language and high level language	
6	15/7/2017	Device drivers device management using an operating systems	
7	17/07/2017	Software design for scheduling multiple tasks and devices using RTOS	
8	18/7/2017	Embedded SoC and in VLSI circuits.	
		Unit-2	
9	20/7/2017	Structural units of the processor	8
10	21/7/2017	Allocation of memory to program segment and blocks	
11	24/7/2017	Memory map of the system	
12	25/7/2017	Memory blocks for different data sets and structures	
13	27/7/2017	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
14	28/7/2017	Device drivers, Virtual Devices,	
15	31/7/2017	Device drivers for parallel port, serial and timing devices	
16	1/8/2017	Context and periods for context switching, deadline and interrupt latency	
		Unit-3	
17	3/8/2017	Software programming in assembly language and C	8
18	4/8/2017	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
19	7/8/2017	Use of data structures Function pointers, Function queues and ISR queues	
20	8/8/2017	Queues for implementing protocol for a network, Queuing of functions on interrupts	
21	10/8/2017	Use of FIPO queues, Stacks,	
22	11/8/2017	Lists and Ordered Lists	
23	14/8/2017	Embedded Programming in C++	
24	18/8/2017	Embedded Programming in Java	

		Unit-4	
25	21/8/2017	Modeling process, Use of dataflow & control data flow graphs,	7
26	22/8/2017	Programming model for event controlled or response time constraint, Real time programs,	
27	24/8/2017	use of finite states machine model	
28	28/8/2017	finite states machine model-timer, c function	
29	29/8/2017	Petri net Model	
30	31/8/2017	Modeling of Multiprocessor systems	
31	1/9/2017	Inter process Communication and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
		Unit-5	
32	4/9/2017	Use of Semaphores for a task or for Critical section of code,	8
33	5/9/2017	Mutex & P & V semaphores	
34	7/9/2017	Priority inversion problems & Deadlock situations	
35	8/9/2017	IPC issues: Use of signals, Use of Semaphore flags	
36	11/9/2017	Use of Mutex as resource key,	
37	12/9/2017	Use of message queues,	
38	14/09/2017	Mailboxes, pipes,	
39	15/09/2017	Virtual sockets, RPCs	
		Unit-6	
40	18/09/2017	Introduction to RTOS, OS Services, RTOS Services,	7
41	19/09/2017	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
42	21/09/2017	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
43	22/09/2017	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
44	25/09/2017	Preemptive scheduling, Critical section service by preemptive scheduler,	
45	26/09/2017	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
46	28/09/2017	Performance metrics, IEEE Standard POSIX 1003.1B, Fifteen-point' strategy for Synchronization, Embedded Linux Kernel	
47	29/09/2017	Case Study- Raspberry Pi	**Content beyond Syllabus**

Faculty: - Dr. A. P. Bodkhe

HOD
(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Computer Architecture & Organization (5IT03)
Name of Faculty: - Dr. A. S. Alvi
Semester :- V
Section :- A

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	3/7/17	**Basic structure of computer:** Hardware & software	11
2	4/7/17	Addressing methods	
3	5/7/17	Program sequencing	
4	6/7/17	Program sequencing	
5	8/7/17	concept of memory locations & address	
6	10/7/17	Main memory operation	
7	11/7/17	Instructions & instruction sequencing	
8	12/7/17	Addressing modes	
9	13/7/17	Basic I/O operations	
10	15/7/17	Stacks	
11	17/7/17	Queues & subroutines	
		Unit-2	
12	18/7/17	**Processing Unit:** fundamental concepts	9
13	19/7/17	execution of a complete instruction	
14	20/7/17	hardwired control	
15	22/7/17	performance consideration	
16	24/7/17	Microprogrammed control	
17	25/7/17	Microinstructions	
18	26/7/17	microprogram sequencing	
19	27/7/17	microinstruction prefetching	
20	29/7/17	Emulation	
		Unit-3	
21	31/7/17	**I/O organization:** accessing I/O devices	10
22	1/8/17	Interrupts	
23	2/8/17	direct memory access: bus arbitration	
24	3/8/17	bus arbitration	
25	5/8/17	I/O hardware: processor bus	
26	7/8/17	interfacing circuits	
27	8/8/17	processor bus and interfacing circuits	
28	9/8/17	standard I/O interfaces: SCSI bus	
29	10/8/17	SCSI bus	
30	12/8/17	backplane bus standard	
		Unit-4	
31	21/8/17	**Memory Unit:** basic concepts	10
32	22/8/17	semiconductor RAM memories	

33	23/8/17	internal organization
34	24/8/17	static & dynamic RAMs
35	26/8/17	ROMs
36	28/8/17	speed, size & cost considerations
37	29/8/17	Cache memories: performance considerations
38	30/8/17	Virtual memories
39	31/8/17	address translation
40	4/9/17	memory management requirements
		Unit-5
41	5/9/17	Arithmetic
42	6/9/17	number representation
43	7/9/17	design of fast adders
44	9/9/17	signed addition and subtraction
45	11/9/17	Multiplication of positive numbers
46	12/9/17	Booths' algorithm
47	13/9/17	Integer division
48	14/9/17	Floating-point numbers
49	16/9/17	related operations
		Unit-6
50	18/9/17	**Computer Peripherals:** Input-output devices like video displays
51	19/9/17	video terminals
52	20/9/17	graphics input devices
53	21/9/17	printers
54	23/9/17	Online storage devices: magnetic disks
55	25/9/17	magnetic tape systems
56	26/9/17	CDROM systems,
57	27/9/17	Communication devies: Modems
58	28/9/17	Symmetric Multiprocessors
59	29/9/17	Multicore Organization, Register Organization

Faculty: - Dr. A. S. Alvi

HOD
(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017 - 18)

Course Number and Title: Digital Integrated Circuits(5IT03)
Name of Faculty: Prof. A. S. Mahalle
Semester :- V **Section :** I

Lecture No.	Planned Dates	Topic Name
		Unit-1
1	3/7/17	Review of Boolean Algebra
2	4/7/17	Boolean Functions & Logic Families: Canonical & Standard Forms
3	5/7/17	Digital Logic Gates
4	6/7/17	Digital Integrated Circuits: Special Characteristics: Fan-in, Fan-out , Power dissipation, propagation delay & noise margin
5	7/7/17	Bipolar Transistor Characteristics
6	10/7/17	TTL, ECL
7	11/7/17	MOS & CMOS families: Basic characteristics
8	12/7/17	Operation and typical characteristics
		Unit-2
9	13/7/17	Simplification of Boolean functions: The K-Map method: Two Variable, Three Variable
10	14/7/17	Four Variable K-Map
11	17/7/17	Four Variable K-Map
12	18/7/17	Five Variable K-Map
13	19/7/17	Five Variable K-Map
14	20/7/17	Implementation using logic gates
15	21/7/17	Tabulation Method
16	24/7/17	Tabulation Method
17	25/7/17	Determination of Prime Implicants.
18	26/7/17	Selection of Prime Implicants
		Unit-3
19	27/7/17	Combinational Logic: Introduction
20	28/7/17	Design Procedure
21	31/7/17	Adders
22	1/8/17	Subtractors
23	2/8/17	Code Converters
24	3/8/17	Analysis Procedure for Combinational Circuits
25	4/8/17	Multilevel NAND Circuits
26	7/8/17	Multilevel NAND Circuits
27	8/8/17	Multilevel NOR Circuits
28	9/8/17	Multilevel NOR Circuits
29	10/8/17	Exclusive-OR function, Odd function
30	11/8/17	Parity generation & Checking

		Unit-4	
31	21.8.17	MSI & PLD Components. Introduction	
32	22.8.17	Binary Parallel Adder	
33	23.8.17	Binary Adder-Subtractor	
34	24.8.17	Decimal adder	
35	28.8.17	BCD Adder	
36	29.8.17	Magnitude Comparator	10
37	30.8.17	Decoders, Encoders	
38	31.8.17	Multiplexers	
39	1.9.17	ROM, Various types of ROMs	
40	4.9.17	Programmable Logic Arrays, Programmable Array Logic	
		Unit-5	
41	5.9.17	Synchronous Sequential Circuits: Introduction	
42	6.9.17	Flip Flops: Basic Circuits, SR, JK Master – Slave	
43	7.9.17	D & T Flip Flop, Triggering of Flip Flops	
44	8.9.17	Analysis of Clocked sequential circuits	
45	11.9.17	State Reduction & assignment	
46	12.9.17	Flip Flop excitation table	10
47	13.9.17	Design procedure for sequential circuit	
48	14.9.17	Design of counters: Ripple Counters	
49	15.9.17	Synchronous Counters	
50	18.9.17	Asynchronous Counters	
		Unit-6	
51	19.9.17	Types of Shift Registers	
52	20.9.17	RAM: Static & Dynamic RAM	
53	21.9.17	Algorithmic State Machines: Introduction	4
54	22.9.17	ASM Charts	
55	25.9.17	Improvement Classes + Remdial Classes	
56	26.9.17	Improvement Classes + Remdial Classes	
57	27.9.17	Problems on ASM Charts and Flow diagrams	
58	28.9.17	Designing a complex Sequential Cicuits.	

Faculty : A. S. Mahalle

HOD
(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Programming Methodology (3IT02)
Name of Faculty: - Prof. A. W. Burange
Semester :- III

Section :-A

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	03/07/2017	Introduction to Computer and Languages	8
2	04/07/2017	OOPS and Software development	
3	05/07/2017	Software Engineering and SDLC	
4	08/07/2017	Java Basics	
5	10/07/2017	Program Components	
6	11/07/2017	Compilation cycle	
7	12/07/2017	Introduction to Applet and Application	
8	15/07/2017	Data types and Variables	
		Unit-2	
9	17/07/2017	Operators: Arithmetic operators, relational operators	8
10	18/07/2017	Assignment operators	
11	19/07/2017	Control statement: Selection statement: if, nested if	
12	22/07/2017	Switch statement	
13	24/07/2017	Repetition statements: while, do-while, for, nested loops	
14	25/07/2017	Introduction to Math class	
15	26/07/2017	Arrays: Basics, One dimensional, Multidimensional	
16	29/07/2017	Array of Objects, Passing array to method.	
		Unit-3	
17	31/07/2017	Introducing classes	8
18	01/08/2017	class fundamentals	
19	02/08/2017	declaring objects	
20	05/08/2017	methods, access control	
21	07/08/2017	class data,& instance data	
22	08/08/2017	constructor	
23	09/08/2017	this keyword	
24	12/08/2017	Introduction to String and String Buffer classes.	
		Unit-4	
25	14/08/2017	Event handling: Event handling mechanism	8
26	16/08/2017	Delegation Event model	
27	19/08/2017	Event, Event Listener	
28	21/08/2017	Action Listener, mouse Listener	
29	22/08/2017	mouse Motion Listener, window Listener	
30	23/08/2017	Introduction to AWT, AWT classes: Button, Text Field, Label	

31	26/08/2017	Working with Graphics	
32	28/08/2017	AWT controls Fundamentals: Adding and removing controls	
		Unit-5	
33	29/08/2017	Applet class and its methods	
34	30/08/2017	Adapter classes	
35	04/09/2017	Inheritance	
36	05/09/2017	Polymorphism	8
37	06/09/2017	Abstract classes and Interface	
38	09/09/2017	Packages	
39	11/09/2017	Multithreaded Programming: The java thread mode	
40	12/09/2017	Creating a thread, Creating multiple threads.	
		Unit-6	
41	13/09/2017	Java File I/O: File, File Dialog object	
42	16/09/2017	Low and High level File I/O	
43	18/09/2017	Stream classes, Byte Stream: Input stream, Output stream	
44	19/09/2017	File Input stream, File Output stream	
45	20/09/2017	Data Input stream, Data Output stream, Print Writer	8
46	23/09/2017	Exception handling: Exception types, uncaught Exceptions using try and catch	
47	25/09/2017	GUI objects programming: Frame class	
48	26/09/2017	Menus and other GUI objects	
49	27/09/2017	Introduction to servlet	Conte beyon Syllab
50	03/10/2017	Servlet life cycle	

Prof. A.W.Burange

Subject Teacher

HOD

Department of Information Tech.

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Programming Methodology (3IT02)
Name of Faculty: - Prof. H. D. Misalkar
Semester :- III **Section :-** B

Lecture NO.	Planned Dates	Topic Name	Total Hours
		UNIT 1	
1	03/07/17	Introduction to Computer and Languages	8
2	04/07/17	OOPS and Software development	
3	06/07/17	Software Engineering and SDLC	
4	10/07/17	Java Basics	
5	11/07/17	Program Components	
6	13/07/17	Compilation cycle	
7	14/07/17	Introduction to Applet and Application	
8	17/07/17	Data types and Variables	
		UNIT 2	
9	18/07/17	Operators: Arithmetic operators, relational operators	8
10	20/07/17	Assignment operators	
11	21/07/17	Control statement: Selection statement: if, nested if	
12	24/07/17	Switch statement	
13	25/07/17	Repetition statements: while, do-while, for, nested loops	
14	27/07/17	Introduction to Math class	
15	28/07/17	Arrays: Basics, One dimensional, Multidimensional	
16	31/07/17	Array of Objects, Passing array to method.	
		UNIT 3	
17	01/08/17	Introducing classes	8
18	03/08/17	class fundamentals	
19	04/08/17	declaring objects	
20	07/08/17	methods, access control	
21	08/08/17	class data,& instance data	
22	10/08/17	constructor	
23	11/08/17	this keyword	
24	14/08/17	Introduction to String and String Buffer classes.	
		UNIT 4	
25	16/08/17	Event handling: Event handling mechanism	8
26	18/08/17	Delegation Event model	
27	21/08/17	Event, Event Listener	
28	22/08/17	Action Listener, mouse Listener	
29	24/08/17	mouse Motion Listener, window Listener	
30	28/08/17	Introduction to AWT, AWT classes: Button, Text Field, Label	
31	29/08/17	Working with Graphics	
32	31/08/17	AWT controls Fundamentals: Adding and removing controls	
		UNIT 5	

33	01/09/17	Applet class and its methods	8
34	04/09/17	Adapter classes	
35	05/09/17	Inheritance	
36	07/09/17	Polymorphism	
37	08/09/17	Abstract classes and Interface	
38	11/09/17	Packages	
39	12/09/17	Multithreaded Programming: The java thread mode	
40	14/09/17	Creating a thread, Creating multiple threads.	
UNIT 6			
41	15/09/17	Java File I/O: File, File Dialog object	8
42	18/09/17	Low and High level File I/O	
43	19/09/17	Stream classes, Byte Stream: Input stream, Output stream	
44	21/09/17	File Input stream, File Output stream	
45	25/09/17	Data Input stream, Data Output stream, Print Writer	
46	26/09/17	Exception handling: Exception types, uncaught Exceptions using try and catch	
47	28/09/17	GUI objects programming: Frame class	
48	29/09/17	Menus and other GUI objects	
Content Beyond Syllabus			
49	2/09/17	Network Protocols	3
50	3/09/17	Developing Networking Applications in Java	
51	5/09/17	Introduction to servlet, Servlet life cycle	

Subject Teacher

HOD

Department of Information Tech

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Real Time Embedded System(7IT04)
Name of Faculty: - Prof. M. S. Deshmukh
Semester:- VII
Section :- B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	4/7/2017	Introduction to embedded systems	8
2	5/7/2017	Processor in the system, types of processor	
3	7/7/2017	Hardware units required in the exemplary cases	
4	11/7/2017	Software embedded into a system Final Machine implement able software for a product	
5	12/7/2017	Software in Processor specific assembly language and high level language	
6	14/7/2017	Device drivers device management using an operating systems	
7	17/07/2017	Software design for scheduling multiple tasks and devices using RTOS	
8	19/7/2017	Embedded SoC and in VLSI circuits.	
		Unit-2	
9	20/7/2017	Structural units of the processor	8
10	21/7/2017	Allocation of memory to program segment and blocks	
11	24/7/2017	Memory map of the system	
12	26/7/2017	Memory blocks for different data sets and structures	
13	27/7/2017	Serial communication using I2C, CAN and advanced I/O buses between the networked multiple devices	
14	28/7/2017	Device drivers, Virtual Devices,	
15	31/7/2017	Device drivers for parallel port, serial and timing devices	
16	2/8/2017	Context and periods for context switching, deadline and interrupt latency	
		Unit-3	
17	3/8/2017	Software programming in assembly language and C	8
18	4/8/2017	Program Elements: Use of data structures Queues, Stacks, Lists and Trees	
19	7/8/2017	Use of data structures Function pointers, Function queues and ISR queues	
20	9/8/2017	Queues for implementing protocol for a network, Queuing of functions on interrupts	
21	10/8/2017	Use of FIPO queues, Stacks,	
22	11/8/2017	Lists and Ordered Lists	
23	14/8/2017	Embedded Programming in C++	
24	16/8/2017	Embedded Programming in Java	

		Unit-4	
25	18/8/2017	Modeling process, Use of dataflow & control data flow graphs,	7
26	21/8/2017	Programming model for event controlled or response time constraint, Real time programs,	
27	23/8/2017	use of finite states machine model	
28	24/8/2017	finite states machine model-timer, c function	
29	28/8/2017	Petri net Model	
30	30/8/2017	Modeling of Multiprocessor systems	
31	31/8/2017	Inter process Communication and Synchronization: Multiple processes in an application: Process, Tasks, Threads, Sharing data by multiple tasks	
		Unit-5	
32	1/9/2017	Use of Semaphores for a task or for Critical section of code,	8
33	4/9/2017	Mutex & P & V semaphores	
34	6/9/2017	Priority inversion problems & Deadlock situations	
35	7/9/2017	IPC issues: Use of signals, Use of Semaphore flags	
36	8/9/2017	Use of Mutex as resource key,	
37	11/9/2017	Use of message queues,	
38	13/9/2017	Mailboxes, pipes,	
39	14/09/2017	Virtual sockets, RPCs	
		Unit-6	
40	15/09/2017	Introduction to RTOS, OS Services, RTOS Services,	7
41	18/09/2017	Schedule management for multiple tasks in Real Time, Handling of interrupt source call	
42	20/09/2017	RTOS task scheduling models, Cooperative Round Robin Scheduling using a Circular Queue of ready tasks	
43	21/09/2017	Using an Ordered list as per precedence constraints, Cycling scheduling in Time Slicing	
44	22/09/2017	Preemptive scheduling, Critical section service by preemptive scheduler,	
45	25/09/2017	Fixed Real Time scheduling, Precedence assignment in Scheduling algorithms.	
46	27/09/2017	Performance metrics, IEEE Standard POSIX 1003.1B, Fifteen-point' strategy for Synchronization, Embedded Linux Kernel	
47	28/09/2017	Case Study- Raspberry Pi	Content beyond Syllabus
48	29/09/2017	Case study- Arduino	

Faculty: - Prof. M. S. Deshmukh

HOD

(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

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

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	03/07/2017	Introduction to Artificial Intelligence	9
2	04/07/2016	The AI Problems.	
3	05/07/2017	The Underlying Assumption.	
4	07/07/2017	What is an AI Technique.	
5	10/07/2017	Problems, Problem Spaces and Search.	
6	11/07/2017	Production Systems	
7	12/07/2017	Problem Characteristics.	
8	14/07/2017	Production System Characteristics	
9	17/7/2017	Issues in the Design of Search Programs	
		Unit-2	
10	18/07/2017	Heuristic Search Techniques:	8
11	19/07/2017	Generate-and-Test.	
12	21/07/2017	Hill Climbing.	
13	24/07/2017	Best-first Search, A* Algorithm	
14	25/07/2017	Problem Reduction, AND-OR Graphs.	
15	26/07/2017	The AO* Algorithm,	
16	28/07/2017	Constraint Satisfaction.	
17	31/07/2017	Means ends Analysis	
		Unit-3	
18	01/08/2017	Knowledge Representation Issues, Representations and Mappings.	8
19	02/08/2017	Approaches to Knowledge Representation,	
20	04/08/2017	Issues in Knowledge Representation, The Frame Problem.	
21	07/08/2017	Predicate Logic: Representing Simple Facts in Logic.	
22	08/08/2017	Representing Instance and ISA Relationships, Computable Functions and Predicates,	
23	09/08/2017	Resolution, Natural Deduction	
24	11/08/2017	Representing Knowledge Using Rules, Procedural Versus Declarative Knowledge	
25	18/08/2017	Logic Programming Forward Versus Backward Reasoning, Matching, Control Knowledge.	
		Unit-4	
26	21/08/2017	Symbolic Reasoning Under Uncertainty, Introduction to Nonmonotonic Reasoning	8
27	22/08/2017	Logics for Nonmonotonic Reasoning.	
28	23/08/2017	Implementation Issues, Augmenting a Problem-solver.	

29	28/08/2017	Implementation: Depth-first Search.	
30	29/08/2017	Implementation: Breadth first Search.	
31	30/08/2017	Statistical Reasoning Probability and Bayes' Theorem.	
32	01/09/2017	Certainty Factors and Rule-based Systems.	
33	04/09/2017	Bayesian Networks, Semantic Nets, Frames.	
		Unit-5	
34	05/09/2017	Understanding :What is Understanding	
35	06/09/2017	Understanding as Constraint Satisfaction.	
36	08/09/2017	Natural Language Processing	
37	11/09/2017	Syntactic Processing	
38	12/09/2017	Semantic Analysis, Discourse and Pragmatic Processing.	8
39	13/09/2017	Statistical Natural Language Processing.	
40	15/09/2017	Spell Checking, Common Sense Qualitative Physics	
41	18/09/2017	Common Sense Ontologies.	
		Unit-6	
42	19/09/2017	Expert Systems Representing and Using Domain Knowledge:	
43	20/09/2017	Expert System Shells, Explanation.	
44	22/09/2017	Knowledge Acquisition	
45	25/09/2017	**Fuzzy Logic Systems**: Introduction, Crisp Sets, Fuzzy Sets.	9
46	26/09/2017	Some Fuzzy Terminology, Fuzzy Logic Control.	
47	27/09/2017	**Genetic Algorithms**: Significance of the Genetic Operators.	
48	29/09/2017	Termination Parameters	
49	05/10/2017	Evolving Neural Networks.	
50	06/10/2017	Introduction to programming language of AI and its Advantage.	Conten beyon Syllabu
51	09/10/2017	Introduction to PROLOG.	

Faculty: - Prof.N.S.Band

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(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: Electronics Devices & Circuits (IT 204)
Name of Faculty: Prof. N. N. Wadhe
Semester: III

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	03-07-2017	Forward & Reverse Resistance	
2	06-07-2017	PIV, HWR,BR, and Comparison	
3	07-07-2017	Filter Circuits	
4	08-07-2017	Capacitive, Inductive, & π Filter	
5	10-07-2017	Voltage stabilization	8
6	13-07-2017	Zener diode, Characteristics	
7	14-07-2017	LED, 7 Segment Display	
8	15-07-2017	Photodiodes, their principal of operation & application	
		Unit-2	
9	17-07-2017	BJT basic Principal	
10	20-07-2017	BJT Connection, CB, CE & CC	
11	21-07-2017	Input-Outputs Characteristics	
12	22-07-2017	Amplification factor The CE amplifier (Simple analysis).	
13	24-07-2017	DC load line, operating point	8
14	27-07-2017	Stability factor. Transistor Biasing circuits, base resistor method,	
15	28-07-2017	Biasing with feedback resistor, voltage divider method.	
16	29-07-2017	FET basic principle.	
		Unit-3	
17	31-07-2017	Basic Principle, Barkhausen criterion Phase shift oscillator	
18	03-08-2017	Wein –Bridge oscillator,	
19	04-08-2017	Crystal oscillator Transistor as a switch.	
20	05-08-2017	Introduction to P-spice, Input Files, element values	8
21	07-08-2017	Nodes sources, type of analysis	
22	10-08-2017	Output variables output command,	
23	11-08-2017	Output files, type of outputs.	
24	12-08-2017	Finding Node voltage and current.	
		Unit-4	
25	14-08-2017	**Introduction to Operational Amplifier**	
26	17-08-2017	Block diagram of op-amp,	
27	18-08-2017	Differential amplifier, DC Analysis	
28	19-08-2017	constant current source,	8
29	21-08-2017	DC level Shifting, Op-Amp Parameters	
30	24-08-2017	Transfer Characteristics	
31	25-08-2017	Study of IC uA741	
32	26-08-2017	Inverting & non-inverting amplifier	
		Unit-5	
33	28-08-2017	**Introduction to Linear & non-linear application of Op-Amp**	
34	31-08-2017	voltage follower	8
35	01-09-2017	Summing amplifier	
36	02-09-2017	Subtractor, Integrator,	
37	04-09-2017	Differentiator,	

38	07-09-2017	Comparator	
39	08-09-2017	Zero crossing detector 3 pin IC	
40	09-09-2017	Voltage regulator 78XX, 79XX series.	
		Unit-6	
41	11-09-2017	**Introduction to Timer & PPL**	
42	14-09-2017	Block diagram of IC 555	
43	15-09-2017	application of Timer IC 555	
44	16-09-2017	as astable, monostable, multivibrator,	
45	18-09-2017	phase locked loops (PLL)	9
46	21-09-2017	operations of phase locked loop system	
47	22-09-2017	Transfer characteristics, lock range capture range.	
48	23-09-2017	Lock range capture range.	
49	25-09-2017	Introduction to various measurement tools	Content beyond Syllabus
50	28-09-2017	Use of breadboard/ bare PCB for designing, assembling, soldering and mounting of components	
51	29-09-2017	Testing of Assembled circuit	

Faculty: - Prof. N. S. Wadhe

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(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Distributed Database Systems(7IT05)
Name of Faculty: - Prof. N. V. Kadam
Semester :- VII

Lecture No.	Planned Dates	Topic Name	Total Hours
		Unit-1	
1	3.07.17	Introduction to DDBS	8
2	4.07.17	Introduction to DDBS	
3	6.07.17	Promises of DDBs, Problem areas	
4	8.07.17	Overview of Relational DBMS	
5	10.07.17	Normalization, Integrity Rules	
6	11.07.17	Review of Computer Networks	
7	13.07.17	Data Communication Concepts	
8	15.07.17	Types of Network, Protocol Standard.	
		Unit-3	
9	17.07.17	Overview of Query Processing	4
10	18.07.17	Types of Optimization	
11	19.07.17	Characteristics of Query processors	
12	21.07.17	Layers of Query processing.	
		Unit-4	
13	24.07.17	TransactionmanageentandConcurreny control	7
14	25.07.17	Definition, Properties of Transaction	
15	26.07.17	Types of Transaction	
16	28.07.17	Serilizability, Taxonomy	
17	31.07.17	Locking based concurrency control algorithms	
18	1.08.17	Locking based concurrency control algorithms	
19	2.08.17	Deadlock management	
		Unit-5	
20	4.08.17	Distributed DBMS reliability	5
21	7.08.17	Failures and Fault tolerance in distributed systems	
22	8.08.17	Failures in DDBMS	
23	9.08.17	Local reliability protocols	
24	11.08.17	dealing with site failures	
		Unit-6	
25	28.08.17	Distributed Object Database Management Systems	7
26	29.08.17	Design and Architectural issues of ODBMS	
27	30.08.17	Current issues	
28	1.09.17	Data ware housing	
29	4.09.17	World wide web, Mobile databases.	
30	5.09.17	Distributed DBMS architecture, DBMS standardization	
31	6.09.17	Architectural Models	
		Unit-2	
32	8.09.17	Distributed DBMS architecture	10
33	11.09.17	Distributed DBMS architecture	
34	12.09.17	Distributed Database Design: Alternative Design	

		Strategies, Distributed Design issues	
35	13.09.17	Distributed Design issues	
36	15.09.17	Fragmentation	
37	18.09.17	Allocation Semantic Data Control:	
38	19.09.17	View Management	
39	20.09.17	Data Security	
40	22.09.17	Semantic Integrity Control	
41	25.09.17	State Transitions for 2P Commit Protocol	
42	26.09.17	State Transitions for 2P Commit Protocol	**Content beyond Syllabus**
43	27.09.17	Strict Replica Control Protocol	
44	29.09.17	Quorums	

Faculty: - Prof. N. V. Kadam

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(Information Technology)

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Operating System (5IT01)
Name of Faculty: - Prof. P. P. Deshmukh
Semester :- V **Section :-** B

Lecture NO.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	3/7/2017	Introduction to subject	8
2	4/7/2017	Introduction to Operating System(OS) definition, OS Evolution	
3	5/7/2017	OS Components, OS Services	
4	6/7/2017	Process Concept, Process Scheduling	
5	8/7/2017	Operations on Processes	
6	10/7/2017	Cooperating Processes, Inter-process Communication	
7	11/7/2017	Threads: Multithreading Models	
8	12/7/2017	Threading Issues, Java Threads	
		Unit-2	
9	13/7/2017	CPU Scheduling: Concepts, Scheduling Criteria	9
10	15/7/2017	Scheduling Algorithms, FCFS, SJF, LRU, Priority	
11	17/7/2017	Scheduling Algorithms & problems	
12	18/7/2017	Scheduling Algorithms Process Synchronization: The Critical Section Problem	
13	19/7/2017	Synchronization Hardware	
14	20/7/2017	Semaphores, Monitors	
15	24/7/2017	Deadlocks: Definition & Characterization, Deadlock Prevention	
16	25/7/2017	Deadlock Avoidance, Deadlock Detection	
17	26/7/2017	Recovery from Deadlock	
		Unit-3	
18	27/7/2017	Memory Management: Background	8
19	31/7/2017	Swapping, Contiguous Memory Allocation	
20	1/8/2017	Paging	
21	2/8/2017	Segmentation	
22	3/8/2017	Segmentation with Paging	
23	7/8/2017	Virtual Memory: Background	
24	8/8/2017	Demand Paging , Process Creation ,Page Replacement	
25	9/8/2017	Allocation of Frames, Thrashing	
		Unit-4	
26	10/8/2017	File-System Interface: Directory Structure	8
27	12/8/2017	File-System Mounting, File Sharing	
28	21/8/2017	Protection	
29	22/8/2017	File System Structure , System Implementation	
30	23/8/2017	Directory Implementation	
31	24/8/2017	File Allocation Methods	
32	26/8/2017	Free-Space Management	
33	28/8/2017	File Recovery	
		Unit-5	
34	29/8/2017	I/O Systems: Overview	

		UNIT-IV	
30	06-02-18	Turing Machine	9
31	07-02-18	Definition, Model, Design of TM	
32	08-02-18	Design of TM	
33	10-02-18	Computable Functions	
34	12-02-18	Computable Functions	
35	20-02-18	Recursive Ensumerable Language	
36	21-02-18	Church's Hypothesis	
37	22-02-18	Counter Machine	
38	26-02-18	Types of TM's	
		UNIT-V	
39	27-02-18	Chomshy Hierarchy of Languages	6
40	28-02-18	Linear Bounded Automata	
41	01-03-18	Context Sensitive Language	
42	03-03-18	Introduction of DCFL And DPDA	
43	05-03-18	LR (0)	
44	06-03-18	Grammer, Decidability of Problems	
		UNIT-VI	
45	07-03-18	Properties of Recursive Ensumarable Languages	5
46	08-03-18	Properties of Non Recursive Ensumarable Languages	
47	10-03-18	Universal Turing Machine	
48	12-03-18	Postcorrespondance Problem	
49	13-03-18	Introduction to Recursive Function Theory	
50	14-03-18	GATE Questionnaire	Conten beyond syllabu
51	15-03-18		
52	17-03-18		
53	19-03-18	Revision of Unit I and II	
54	20-03-18	Revision of Unit III and IV	
55	21-03-18	Revision of Unit V and VI	
56	22-03-18	Test on Unit I , II and III	
57	24-03-18	Test on Unit IV, V and VI	

Faculty: - Prof. A. A. Gulhane

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2017-18)

Course Number and Title: - Numerical Methods & Operational Research Technique (4IT05)

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

Semester: IV B

Section - B

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	26-12-17	Error Analysis	7
2	27-12-17	Absolute, relative and percentage errors.	
3	28-12-17	Solution of Non linear and polynomial equations.	
4	01-01-18	Bisection Method	
5	02-01-18	False Position method	
6	03-01-18	Secant method	
7	04-01-18	Newton Raphson methods.	
		UNIT-II	
8	08-01-18	Solution of Linear Systems of Equation : Gauss elimination method	8
9	09-01-18	Gauss elimination method	
10	10-01-18	Gaussian elimination	
11	11-01-18	Gauss Seidel Iterative Method	
12	15-01-18	Gauss Jorden Method ,	
13	16-01-18	Regression	
14	17-01-18	Curve fitting: Least Square Method	
15	18-01-18	Correlations	
		UNIT III	
16	22-01-18	Integration and Differential equations	8
17	23-01-18	Numerical Integration-Trapezoidal	
18	24-01-18	Simpsons one third and three eight rules	
19	25-01-18	Romberse Method	
20	29-01-18	Newtons forward and backword interpolation formula	
21	30-01-18	Lagrange's Interpolation Method	
22	31-01-18	Euler's method, Runge Kutta methods	
23	01-02-18	Predictor Corrector method, Taylor Series	
		UNIT-IV	
24	05-02-18	Operations Research Models and Dynamic Programming	8
25	06-02-18	classification of problems, phases of operation research	
26	07-02-18	scope and limitation operations research	
27	08-02-18	Dynamic programming: Investment problem	
28	12-02-18	Investment problem	
29	20-02-18	Stagecoach Problem,	
30	21-02-18	Equipment Replacement problem	
31	22-02-18	conversion of final value problem into an initial value problems	
		UNIT-V	

32	26-02-18	Linear Programming and Sequencing , simplex method	8
33	27-02-18	Big-M Method	
34	28-02-18	Two Phase Simplex Method	
35	01-03-18	concept of duality	
36	05-03-18	transportation problems, Assignment Problem	
37	06-03-18	Hungarian Method	
38	07-03-18	Sequencing Problem: Two-Machine	
39	08-03-18	N-Jobs, and Three Machine Problem.	
		UNIT-VI	
40	12-03-18	PERT and CPM : Pert Networks, ET, TE, TL, SE	**6**
41	13-03-18	Critical path, Probability of completion	
42	14-03-18	Decision theory : Introduction	
43	15-03-18	Minimax decision procedure	
44	19-03-18	Bayes decision procedure with and without data	
45	20-03-18	Regret function Vs. Loss function	
46	21-03-18	Gate related question	Content Beyond Syllabus
47	22-03-18	Gate related question	

Faculty: - Dr. A. S. Alvi

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2017-18)

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

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	26-12-17	Basic web commerce concepts	6
2	27-12-17	Basic web commerce concepts	
3	28-12-17	Electronic commerce environments,	
4	29-12-17	Electronic marketplace technologies,	
5	01-01-18	EDI	
6	02-01-18	Electronic commerce with www internet, commerce net advocacy.	
		UNIT-II	
7	03-01-18	Approach to safe E-commerce: overview	6
8	04-01-18	Secure transport protocol and transaction	
9	05-01-18	Secure Electronic Payment Protocol(SEPP)	
10	08-01-18	Secure Electronic Transaction(SET)	
11	09-01-18	Certificate for authentication	
12	10-01-18	Security on web server and enterprise network.	
		UNIT III	
13	11-01-18	Electronic cash and Electronic payment scheme: overview	8
14	12-01-18	Internet monetary payment and security requirements	
15	15-01-18	Internet monetary payment and security requirements	
16	16-01-18	Payment & purchase order process:Account Holder Registration	
17	17-01-18	Merchant Registration	
18	18-01-18	Account Holder Ordering, Payment Authorization	
19	19-01-18	Online Electronic cash	
20	22-01-18	Electronic Payment Schemes	
		UNIT-IV	
21	23-01-18	Internet/Intranet Security issues and solutions: Needs for computer security	10
22	24-01-18	Security strategies	
23	25-01-18	Encryption	
24	29-01-18	MasterCard/ visa secure Electronic Transaction: Introduction, requirements	
25	30-01-18	MasterCard/ visa secure Electronic Transaction : concepts	
26	31-01-18	payment processing: Cardholder Registration	
27	01-02-18	Payment processing: Cardholder Registration	
28	02-02-18	Payment processing: Merchant Registration	
29	05-02-18	Payment processing: Purchase Request	
30	06-02-18	Payment processing: Payment Authorization & Capture	

		UNIT-V	
31	07-02-18	Secure E-mail Technologies: Introduction	6
32	08-02-18	Means of distribution, Models for message handling	
33	09-02-18	How does Email work?	
34	12-02-18	MIME	
35	20-02-18	S/ MIME ,MOSS	
36	21-02-18	MIME and Related facilities for EDI over the internet	
		UNIT-VI	
37	22-02-18	Internet & web site Establishment:Internet Resources for commerce: introduction,	6
38	23-02-18	Web server Technologies	
39	26-02-18	Internet tools Relevant to commerce	
40	27-02-18	Internet applications for commerce	
41	28-02-18	Internet Access and Architecture	
42	01-03-18	Internet searching	
42	05-03-18	Design and Analysis of Algorithm: Basic Concepts	Content Beyond Syllabus
43	06-03-18	Use of Loops, Efficiency of Algorithms	
44	07-03-18	Estimating & Specifying Execution Times, Order Notations	
45	08-03-18	Algorithm Strategies	
46	09-03-18	Divide And Conquer: Introduction ,	
47	12-03-18	Multiplication Algorithm and its analysis	
48	13-03-18	Introduction to Triangulation , Greedy Algorithm	

Faculty: - Dr. A.S.Alvi

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Data Structures(4IT01)
Name of Faculty: - Prof. A. S. Mahalle
Semester :- IV **Section :-** B

Lecture No.	Topic Name	Total hours
	Unit-1	
1	Data structures basics	7
2	Mathematical /algorithmic notations & functions	
3	Complexity of algorithms, Subalgorithms	
4	String processing, Storing strings, character data type	
5	String operations, Word Processing	
6	First pattern matching algorithm & example	
7	Second pattern matching algorithm & example	
	Unit-2	
8	Linear arrays and their representation in memory	10
9	Traversing linear arrays	
10	Inserting & Deleting operations	
11	Bubble sort	
12	Linear search	
13	Binary search algorithms	
14	Multidimensional arrays	
15	Pointer arrays	
16	Record structures and their memory representation	
17	Matrices and sprase matrices	
	Unit-3	
18	Linked lists and their representation in memory	10
19	Traversing a linked list	
20	Searching a linked list	
21	Memory allocation & garbage collection	
22	Insertion deletion operations on linked lists	
23	Insertion deletion operations on linked lists	
24	Header linked lists	
25	Algorithm on header linked list Two- way linked lists.	
26	Two way linked list	
27	Algorithm on two way linked list	
	Unit-4	
28	Stacks and their array representation.,.	8
29	Arithmetic expressions: Polish notation.	

30	Quick sort	
31	Recursion	
32	Tower of Hanoi problem.	
33	Implementation of recursive procedures by stacks	
34	Queues	
35	Deques, Priority queues.	
	Unit-5	
36	Trees, Binary trees & and their representation in memory	**10**
37	Traversing binary trees	
38	Traversal algorithms using stacks	
39	Header nodes : threads	
40	Binary search trees	
41	searching, inserting	
42	and deleting in binary trees	
43	Heap and heapsort	
44	Path length & Hoffman's algorithm	
45	General trees, M-way search Trees.	
	Unit-6	
46	Graph theory	**7**
47	Sequential representations of graphs	
48	Warshalls' algorithm, Linked representation	
49	Operations & traversing the graphs	
50	Posets & Topological sorting	
51	Selection Sort ,Insertion Sort	
52	Merging & Merge-sort	

Faculty: - A. S. Mahalle

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Data Structures(4IT01)
Name of Faculty: - Prof. A. S. Mahalle
Semester :- IV **Section :-** B

Lecture No.	Planned Date	Topic Name	Total hours
		Unit-1	
1	26/12/17	Data structures basics	7
2	27/12/17	Mathematical /algorithmic notations & functions	
3	29/12/17	Complexity of algorithms, Subalgorithms	
4	30/12/17	String processing, Storing strings, character data type	
5	1/1/18	String operations, Word Processing	
6	2/1/18	First pattern matching algorithm & example	
7	3/1/18	Second pattern matching algorithm & example	
		Unit-2	
8	5/1/18	Linear arrays and their representation in memory	10
9	6/1/18	Traversing linear arrays	
10	8/1/18	Inserting & Deleting operations	
11	9/1/18	Bubble sort	
12	10/1/18	Linear search	
13	12/1/18	Binary search algorithms	
14	13/1/18	Multidimensional arrays	
15	15/1/18	Pointer arrays	
16	16/1/18	Record structures and their memory representation	
17	17/1/18	Matrices and sprase matrices	
		Unit-3	
18	19/1/18	Linked lists and their representation in memory	9
19	20/1/18	Traversing a linked list, Searching a linked list	
20	22/1/18	Memory allocation & garbage collection	
21	23/1/18	Insertion deletion operations on linked lists	
22	24/1/18	Insertion deletion operations on linked lists	
23	27/1/18	Header linked lists	
24	29/1/18	Algorithm on header linked list Two- way linked lists.	
25	30/1/18	Two way linked list	
26	31/1/18	Algorithm on two way linked list	
		Unit-4	
28	5/2/18	Stacks and their array representation.,.	8

29	6/2/18	Arithmetic expressions: Polish notation.	
30	7/2/18	Quick sort	
31	9/2/18	Recursion	
32	10/2/18	Tower of Hanoi problem.	
33	12/2/18	Implementation of recursive procedures by stacks	
34	20/2/18	Queues	
35	21/2/18	Deques, Priority queues.	
		Unit-5	
36	23/2/18	Trees, Binary trees & and their representation in memory	**10**
37	26/2/18	Traversing binary trees	
38	27/2/18	Traversal algorithms using stacks	
39	28/2/18	Header nodes : threads	
40	3/3/18	Binary search trees	
41	5/3/18	searching, inserting	
42	6/3/18	and deleting in binary trees	
43	7/3/18	Heap and heapsort	
44	9/3/18	Path length & Hoffman's algorithm	
45	10/3/18	General trees, M-way search Trees.	
		Unit-6	
46	12/3/18	Graph theory	**7**
47	13/3/18	Sequential representations of graphs	
48	14/3/18	Warshalls' algorithm. Linked representation	
49	16/3/18	Operations & traversing the graphs	
50	17/3/18	Posets & Topological sorting	
51	19/3/18	Selection Sort ,Insertion Sort	
52	20/3/18	Merging & Merge-sort	
53	21/3/18	Gate Questionnaire	Content Beyond Syllabus
54	23/3/18	Gate Questionnaire	

Faculty: - A. S. Mahalle

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2017-18)

Course Number and Title: - OBJECT ORIENTED TECHNOLOGY (4IT03)
Name of Faculty: - Prof. A. W. Burange
Semester: - IV **Section :-** A

Sr No.	Planned Date	Topic Name	Total Hours
		Unit I	
1	26-12-17	Introduction to procedural, modular, object-oriented and generic programming techniques	8
2	27-12-17	Limitations of procedural programming	
3	28-12-17	Need of object-oriented programming	
4	29-12-17	fundamentals of object-oriented programming	
5	01-01-18	Objects & classes in C++	
6	02-01-18	Declaring & using classes	
7	03-01-18	Constructors, Objects as functions arguments	
8	04-01-18	Copy Constructor, Static class data. Arrays of objects	
		Unit II	
9	05-01-18	C++ string Class	8
10	08-01-18	Operator overloading	
11	09-01-18	Overloading unary & binary operators	
12	10-01-18	Data conversion, Pitfalls of operator overloading	
13	11-01-18	Pointers& Arrays	
14	12-01-18	Pointer & functions	
15	15-01-18	New & delete operators	
16	16-01-18	Pointers For objects	
		Unit III	
17	17-01-18	Inheritance in C++ :Derived class & base class	8
18	18-01-18	Derived class Constructors	
19	19-01-18	Function overloading	
20	22-01-18	Class hierarchies	
21	23-01-18	public and private inheritance	
22	24-01-18	Multiple inheritance	
23	25-01-18	Multilevel, Hybrid, Hierarchical inheritance	
24	29-01-18	Containership: classes within classes.	
		UNIT-IV	
25	30-01-18	Virtual functions concepts	8
26	31-01-18	Abstracts classes & pure virtual Functions	
27	31-01-18	Virtual base classes	
28	01-02-18	Friend functions	
29	02-02-18	static Functions, Assignment and copy initialization	
30	05-02-18	this pointer	
31	06-02-18	Dynamic type information. Introduction to C++ graphics	
32	07-02-18	creating basic shapes, using colors and styles .	

		UNIT-V	
33	08-02-18	Streams & File in C++: Stream classes	8
34	09-02-18	Stream Errors	
35	12-02-18	file I/O File I/ O with stream file pointers	
36	20-02-18	Error handling in file I/O	
37	21-02-18	File I/O with member functions	
38	22-02-18	Overloading the extractions & insertion operator	
39	23-02-18	Memory as a stream object	
40	26-02-18	command line arguments, multifile programs.	
		UNIT-VI	
41	27-02-18	Function Tamplate	8
42	28-02-18	class templates	
43	01-03-18	Exception syntax Multiple exceptions	
44	05-03-18	exception with arguments	
45	06-03-18	Introduction to the Standard Template Library	
46	07-03-18	Algorithms, Sequential Containers iterators	
47	08-03-18	Specialized iterators	
48	09-03-18	Associative containers Function objects	
49	12-03-18	GATE Questionnaire	10
50	13-03-18		
51	14-03-18		
52	15-03-18		
53	16-03-18	Runtime Type Information (RTTI) Mechanism	
54	19-03-18	Applications of C++ Concepts	
55	20-03-18	Automatic Cleanup in Exception Handling	
56	21-03-18	Test on Unit I & II	
57	22-03-18	Test on Unit III & IV	
58	23-03-18	Test on Unit V & VI	

Faculty: - Prof. A. W. Burange

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18) Even Sem

Course Number and Title: - Computer Network (6IT04)
Name of Faculty: - Prof. Harshal D. Misalkar
Semester :- VIth **Section :-** B

Lecture No.	Planned Dates	Topic Name	Total hours
		Unit-1	
1	26/12/17	Introduction to Computer network	8
2	27/12/17	Uses, Hardware, Software	
3	28/12/17	reference Model, standardization	
4	29/12/17	Physical Layer, Theoretical Basis for DC	
5	01/01/18	Guided transmission Media, Wireless Transmission	
6	02/01/18	communication satellite, Public Switched Telephone network	
7	03/01/18	Mobile Telephone System	
8	04/01/18	Cable Television	
		Unit-2	
9	05/01/18	Design issues	8
10	08/01/18	Error detection and correction	
11	09/01/18	Elementary Data Link protocols	
12	10/01/18	Sliding window Protocols	
13	11/01/18	Protocol Verification	
14	12/01/18	Protocol Verification	
15	15/01/18	Example DL protocols	
16	16/01/18	Example DL protocols	
		Unit-3	
17	17/01/18	Static and Dynamic channel allocation	8
18	18/01/18	Multiple Access protocols	
19	19/01/18	ALHOA	
20	22/01/18	CSMA, Collision Free Protocols	

21	23/01/18	Ethernet, Wireless LANS	
22	24/01/18	Broadband Wireless	
23	25/01/18	Blue tooth	
24	29/01/18	Data Link Layer Switching	
		Unit-4	
25	30/01/18	Design Issues	
26	31/01/18	Routing methods: Shortest path	
27	01/02/18	flooding, Link state	
28	02/02/18	Distance vector routing and broadcast , multicast routing	
29	05/02/18	Congestion control algorithms	**8**
30	06/02/18	quality of services	
31	07/02/18	internet working	
32	08/02/18	network layer in the Internet	
		Unit-5	
33	09/02/18	Service primitives	
34	12/02/18	UDP: RPC	
35	20/02/18	RTTP	
36	21/02/18	TCP: TCP Services and Features	
37	22/02/18	TCP segment format	**8**
38	23/02/18	TCP Connections	
39	26/02/18	TCP Timers	
40	27/02/18	Performance issue.	
		Unit-6	
41	28/02/18	DNS	
42	01/03/18	Electronic Mail	
43	05/03/18	WWW	
44	06/03/18	Multimedia: Voice over IP	**8**
45	07/03/18	H.323	
46	08/03/18	Video on demand	

47	09/03/18	The M-Bone	
48	12/03/18	The M-Bone	
49	13/03/18	GATE QUESTIONAIRE	
50	14/03/18		
51	15/03/18		
52	16/03/18	Revision of UNIT 1 & 2	
53	19/03/18	Test on Unit 1 & 2	
54	20/03/18	Revision of UNIT 3 & 4	
55	21/03/18	Test on Unit 3 & 4	
56	22/03/18	Revision of UNIT 5 & 6	
57	23/03/18	Test on Unit 5 & 6	

Faculty: Prof. Harshal D. Misalkar

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Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
Lesson Plan (Session 2017-18)

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

Sr No.	Planned Date	Topic Name	Total hours
		UNIT-I	
1	26-12-17	Alphabet	11
2	27-12-17	Language , Operations	
3	29-12-17	Finite state machine, definitions, Finite automation model	
4	30-12-17	Acceptance of strings and languages	
5	01-01-18	Non deterministic finite automation	
6	02-01-18	Finite Automation	
7	03-01-18	Equivalence Between NFA And DFA	
8	05-01-18	Conversion of NFA into DFA	
9	06-01-18	Minimisation Of FSM, Equivalence Between Two FSM's	
10	08-01-18	Moore machines	
11	09-01-18	Melay machines	
		UNIT-II	
12	10-01-18	Regular sets	9
13	12-01-18	Regular Expressions, Identity Rules	
14	13-01-18	Manipulation of regular expressions	
15	15-01-18	Equivalence Between RE And FA	
16	16-01-18	Inter Conversion, Pumping Lemma	
17	17-01-18	Closure properties of regular sets	
18	19-01-18	Regular Grammers, Right Linear & Left Linear Grammers	
19	20-01-18	Equivalence Between Regular Linear Grammer And FA	
20	22-01-18	Inter conversion between RE and RG.	
		UNIT III	
21	23-01-18	Context Free Grammer	9
22	24-01-18	Derivation Trees	
23	27-01-18	Chomsky Normal Form	
24	29-01-18	Greibach Normal Form	
25	30-01-18	Push Down Automata	
26	31-01-18	Definition, Model, Acceptance of CFL	
27	02-02-18	Equivalence of CFL and PDA	
28	03-02-18	Interconversion	
29	05-02-18	Enumeration of Properties of CFL	
		UNIT-IV	
30	06-02-18	Turing Machine	9
31	07-02-18	Definition, Model, Design of TM	
32	09-02-18	Design of TM	
33	10-02-18	Computable Functions	
34	12-02-18	Computable Functions	
35	20-02-18	Recursive Ensumerable Language	

36	21-02-18	Church's Hypothesis	
37	23-02-18	Counter Machine	
38	24-02-18	Types of TM's	
		UNIT-V	
39	26-02-18	Chomshy Hierarchy of Languages	6
40	27-02-18	Linear Bounded Automata	
41	28-02-18	Context Sensitive Language	
42	03-03-18	Introduction of DCFL And DPDA	
43	05-03-18	LR (O)	
44	06-03-18	Grammer, Decidability of Problems	
		UNIT-VI	
45	07-03-18	Properties of Recursive Ensumarable Languages	5
46	09-03-18	Properties of Non Recursive Ensumarable Languages	
47	10-03-18	Universal Turing Machine	
48	12-03-18	Postcorrespondance Problem	
49	13-03-18	Introduction to Recursive Function Theory	
50	14-03-18	GATE Questionnaire	Content beyond syllabus
51	16-03-18		
52	17-03-18		
53	19-03-18	Revision of Unit I and II	
54	20-03-18	Revision of Unit III and IV	
55	21-03-18	Revision of Unit V and VI	
56	23-03-18	Test on Unit I , II and III	
57	24-03-18	Test on Unit IV, V and VI	

Faculty: - Prof. M. S. Deshmukh

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Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati
Department of Information Technology
Subject :- Communication Engineering (4IT02)
Lesson Plan

Lectures Per Week: 4

Lecture No.	Day	Topic to be Covered	Unit
1	Day1	Modulation, need of modulation	Unit-1
2	Day2	AM Modulation, Frequency spectrum	
3	Day3	Principles of DSB-FC,	
4	Day4	DSBSC, SSB-SC modulation and their comparison	
5	Day5	Details of DSBFC Transmitter,	
6	Day6	Generation of DSB-SC by using balanced modulators	
7	Day7	DSB-SC Transmitter	
8	Day8	Generation of SSB-SC by phase-shift method	
9	Day9	TRF receiver, Superhetrodyne receiver,	Unit-2
10	Day10	Details of each block such as RF amplifier, mixer oscillator	
11	Day11	IF amplifier, Diode detector, Audio Amplifier	
12	Day12	Need and type of AGC,	
13	Day13	Communication Receiver, Selectivity filter method	
14	Day14	Phase shift method , sensitivity	
15	Day15	Image rejection ration of communication receiver	
16	Day16	Noise calculation in DSB-FC,DSB-SC & SSB-SC	
17	Day17	FM Modulation	Unit-3
18	Day18	Frequency Spectrum,	
19	Day19	Circuits & Analysis for direct FM generation using FET	
20	Day20	Circuits & Analysis for direct FM generation using varactor diode	
21	Day21	Circuit & analysis of Indirect FM generation	
22	Day22	Narrow Band and Wide Band FM	
23	Day23	Pre-emphasis and De- emphasis	
24	Day24	And Their Comparision	
25	Day25	Details of FM receiver	Unit-4
26	Day26	blocks such as R.F. amplifier, local oscillator,	
27	Day27	IF amplifier, Mixer, Audio Amp!., AGC, Limiter	
28	Day28	FM Discriminator, Single Slope and Balanced slope detector	
29	Day29	Analysis of Foster seeley and ratio detectors,	
30	Day30	Stereo FM receiver,	

Lecture No.	Day	Topic to be Covered	Unit
31	Day31	Noise in FM Reception	
32	Day32	FM threshold effect	
33	Day33	The sampling theorem	Unit-5
34	Day34	Sampling of Band-Pass Signal	
35	Day35	Linear and Non-linear quantization	
36	Day36	Aliasiry effect, Aperture effect	
37	Day37	Reconstruction of filter	
38	Day38	Time Division Multiplexing	
39	Day39	Pulse Amplitude Modulation,	
40	Day40	Pulse Time Modulation, PCM, DM, ADM	
41	Day41	Fourier Series,	Unit-6
42	Day42	Exponential Fourier Series	
43	Day43	Fourier Transform	
44	Day44	Properties of Fourier Transform, Delta Function	
45	Day45	Fourier Transform of Periodic functions	
46	Day46	Fundamental of Power Spectral Density & Energy Spectral Density	
47	Day47	Correlation, Auto-correlation,	
48	Day48	Cross-correlation	

Prof. N. S. Wadhe

Subject Teacher

Dr. P. V. Ingole

Head of Department

Head,
Deptt. of Electronics
P.R.M.I.T. & R., Badnera

Prof. Ram Meghe Institute of Technology & Research, Badnera
Department of Information Technology
(Session 2017-18)

Course Number and Title: - Data Structure (4IT01)
Name of Faculty: - Prof. P. P. Deshmukh
Semester :- IV **Section :-** A

Lecture NO.	Planned Dates	Topic Name	Total Hours
		Unit No. I	
1	26/12/2017	Introduction to subject	10
2	27/12/2017	Data structures basics	
3	29/12/2017	Mathematical /algorithmic notations & functions	
4	30/12/2017	Introduction to Algorithm	
5	1/1/2018	Complexity of algorithms	
6	2/1/2018	Subalgorithms	
7	3/1/2018	String processing, storing strings, character data type	
8	5/1/2018	string operations ,word Processing	
9	6/1/2018	First pattern matching algorithm & example	
10	8/1/2018	Second pattern matching algorithm & Example	
		Unit No. II	
11	9/1/2018	Linear arrays and their representation in memory	09
12	10/1/2018	Traversing linear arrays	
13	12/1/2018	Inserting & Deleting operations	
14	13/1/2018	Bubble sort	
15	15/1/2018	Linear search	
16	16/1/2018	Binary search algorithms	
17	17/1/2018	Multidimensional arrays	
18	19/1/2018	Pointer arrays , Record structures and their memory representation	
19	20/1/2018	Matrices and sprase matrices	
		Unit No. III	
20	22/1/2018	Linked lists and their representation in memory	10
21	23/1/2018	Traversing a linked list	
22	24/1/2018	Searching a linked list	
23	25/1/2018	Memory allocation & garbage collection	
24	27/1/2018	Insertion deletion operations on linked lists	
25	29/1/2018	Insertion deletion operations on linked lists	
26	30/1/2018	Header linked lists	
27	31/1/2018	Algorithm on header linked list Two- way linked lists.	
28	2/2/2018	Two way linked list	
29	3/2/2018	Algorithm on two way linked list	

		Unit No. IV	
30	5/2/2018	Stacks and their array representation & Algorithm	09
31	6/2/2018	Linked list representation & Algorithm	
32	7/2/2018	Arithmetic expressions: Polish notation.	
33	9/2/2018	Quick sort	
34	10/2/2018	Recursion	
35	12/2/2018	Tower of Hanoi problem.	
36	20/2/2018	Implementation of recursive procedures by stacks	
37	21/2/2018	Queues	
38	23/2/2018	Deques. Priority queues.	
		Unit No. V	
39	26/2/2018	Trees, Binary trees & and their representation in memory	08
40	27/2/2018	Traversing binary trees, Traversal algorithms using stacks	
41	28/2/2018	Header nodes : threads	
42	3/3/2018	Binary search trees ,Searching ,Inserting	
43	5/3/2018	and deleting in binary trees	
44	6/3/2018	Heap and heapsort	
45	7/3/2018	Path length & Hoffman's algorithm	
46	9/3/2018	General trees, M-way search Trees.	
		Unit No. VI	
47	10/3/2018	Graph theory	08
48	12/3/2018	Sequential of representations graphs	
49	13/3/2018	Warshalls' algorithm, Linked representation	
50	14/3/2018	Operations & traversing the graphs	
51	16/3/2018	Posets & Topological sorting	
52	17/3/2018	Selection Sort ,Insertion Sort	
53	19/3/2018	Merging & Merge-sort	
54	20/3/2018	Radix sort, Hashing.	
55	21/3/2018	AVL search trees and operations on it.	Content beyond syllabus
56	22/3/2018	B-Trees and searching ,insertion and deletion	
57	24/3/2018	B + Trees	

Subject Teacher

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Department of First Year Engineering Department

Lesson Plan

AY:- 2017-18

Name of Faculty :- Prof. D. V. Kapse

Subject :- Engg. Mathematics-II

Subject Code :- 1BT110006

Semester :- I

Section :-

Batch :-

Lect. No.	Topics	Remark
1	Unit I : Introduction to matrix and it's application/inverse by adjoint method	
2	partitioning method for inverse	
3	Partitioning method for inverse	
4	Rank of the matrix 1	
5	Rank of the matrix 2	
6	Solution of simultaneous equations by matrix method	
7	Characteristic equation,eigen values	
8	eigen vectors	
9	Cayley Hamilton theorem to find inverse	
10	Cayley Hamilton theorem verification	
11	**Unit II** : Introduction to Fourier series and it's uses	
12	Fourier series for periodic function in the range (C,C+2L)	
13	Fourier series in the range (C,C+2L)	
14	Fourier series for even function	
15	Fourier series for odd function	
16	Half range Fourier sine series.	
17	half range Fourier cosine series.	
18	Harmonic Analysis	
19	Problems on Harmonic Analysis	
20	Problems on Harmonic Analysis	
21	**Unit III** : Scalar triple product ,vector triple product	
22	Properties of triple product	
23	Multiple product	
24	Multiple product	
25	Rules of Differentiation under integral sign when limits are constant	
26	Rules of Differentiation under Integral sign when limits are parameters	
27	Rules of Differentiation under Integral sign when limits are parameters	
28	Tracing of curve in cartesian coordinates	
29	Tracing of curve in polar coordinates	
30	Tracing of curve in polar and parametric form	
31	**Unit IV** : Introduction to reduction formulae	
32	Reduction formulae	
33	Beta and Gamma function and properties	
34	Relation between Beta and Gamma function	
35	Examples on Beta & Gamma function	
36	Examples on Beta & Gamma function	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

AY:- 21017-18 **Lesson Plan**

Name of Faculty :- Prof. P. P. Thosare		Semester:- I
Subject: [redacted] Electrical Engineering		Section : H
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	Maximum Power transfer 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 magnetic circuit	
16	Series magnetic circuit with air gap	
17	Series magnetic circuit without air gap	
18	Numerical on series magnetic circuit	
19	Principles of electromagnetic induction	
20	Self and mutual induction	
21	Magnetization curves	
	Unit – III : AC fundamentals	
22	RMS and average values, Form factor, peak factor (for sinusoidal waveform only)	
23	Purely resistive, inductive & capacitive circuit	
24	Single phase AC Series circuit with resistance , inductance & Capacitance	

25	Numericals on RLC series circuit.	
26	Phasor diagrams for series circuit & Series resonance	
27	Impedance triangle, Active & reactive power.	
28	Resonance in Series R-L-C Circuit and Numericals	
	Unit – IV : Polyphase Circuit	
29	Generation of three phase EMF,	
30	3 Phase Balanced Delta and Star connected system,	
31	Voltage and Current relationship between phase and line quantities for star connection	
32	Numerical on three phase star connected system	
33	Voltage and Current relationship between phase and line quantities for Delta connection	
34	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	
46	Necessity of Earthing, Limiting values for various installation, Types of Earthing (Pipe earthing & plate earthing)	
47	Measurement of current & voltage (Ammeter & Voltmeter)	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

AY:- 2017-18	**Lession Plan**	
Name of Faculty :- Prof. Shailesh S. Dhok		Sem:- 1st
Subject : **Computer Programming**	Subject Code:-1B3	Section : F
Lect No.	Topics	Remark
Unit-I	**Problem Solving**	
Lect1	Organization of PC.	
Lect2	Basic concepts of problem solving on computer.	
Lect3	Input-Process-Output cycle.	
Lect4	Algorithms, Flowcharts.	
Lect5	Algorithm development.	
Lect6	Algorithms for sorting and searching .	
Lect7	Algorithm-Bubble sort with examples.	
Lect8	Algorithm-Insertion sort with examples.	
Lect9	Algorithm-Binary search with examples.	
Lect10	Algorithm-Linear search with examples.	
Unit-II	**C Fundamentals:**	
Lect11	Introduction to C language.	
Lect12	First C program.	
Lect13	Program execution.	
Lect14	Keywords, Character set.	
Lect15	Built in Data Types, Variables.	
Lect16	Expressions.	
Lect17	Operators & their precedence, Assignment statement.	
Lect18	I/O using scanf( ) and printf( ) functions.	
Lect19	Format specifiers for scanf( ) and printf( ) functions.	
Lect20	Examples of C-program.	
Unit-III	**C Control constructs:**	
Lect21	Decision-making using if statement.	
Lect22	Decision-making using if-else statement.	
Lect23	Decision-making using switch-case statements.	
Lect24	Loop using for with examples.	
Lect25	Loop using whilewith example.	
Lect26	Loop using do-while statementwith example.	
Lect27	Break and continue statements.	
Lect28	Functions: declaration.	
Lect29	Functions: declaration,with examples.	

Lect30	Functions:Parameter passing mechanism.	
Unit - IV	**Scope Rules and Arrays:**	
Lect31	Storage classes: automatic, static.	
Lect32	Storage classes: extern, register type.	
Lect33	Introduction to arrays: single dimensional.	
Lect34	Introduction to arrays: multi-dimensional.	
Lect35	Programs for single dimensional and multi dimensional arrays.	
Lect36	Strings:Introduction of strings.	
Lect37	Strings: Arrays of strings .	
Lect38	String related functions with examples.	
Lect39	Programs for Searching the arrays of strings.	
Lect40	Programs for sorting the arrays of strings.	
Unit - V	**Pointers:**	
Lect41	Definition and uses of pointers.	
Lect42	Address of operator with examples.	
Lect43	Pointer arithmetic with examples.	
Lect44	Pointers and functions with examples.	
Lect45	Parameter passing mechanism using pointer.	
Lect46	Pointer passing mechanism : examples.	
Lect47	Pointers and Arrays with examples.	
Lect48	Arrays of pointers with examples.	
Lect49	Pointer and Strings with examples.	
Lect50	Pointer and Strings with examples.	
Unit - VI	**Structures and Files:**	
Lect51	Declaring and using the Structures.	
Lect52	Operation on structures.	
Lect53	Arrays of structurers.	
Lect54	Pointers to structures.	
Lect55	Introduction of union with examples.	
Lect56	Unions and their comparison with Structures.	
Lect57	Introduction to Files.	
Lect58	File types.	
Lect59	File handling functions with examples.	
Lect60	Command line arguments.	

2017-18
SEM I/II

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

AY: 2017-2018

Name of Faculty: Prof. DR. K. D. UMALEY		
Subject:	Engineering Chemistry	Semester: I/II
Lecture No.	Topics	Section : Remark
	UNIT 1	
	Water Technology	
1	Introduction, Hardness of water	
2	Types of hardness - temporary & permenant hardness	
3	Units of Hardness and their inter-conversion	
4	Hardness determination by EDTA method	
5	Softening of hard water by lime soda process	
6	Softening of hard water by zeolite process and Ion exchange process	
7	Softening of hard water by	
8	Numerical Problem based on lime soda process	
9	Numerical Problem based on Zeolite process	
	UNIT 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	Galvonic 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 3	
	Portland Cement, Nuclear Fuels & Power Generation	
17	Introduction of Portland cement	
18	Raw materials for the manufacturing of portland cement	
19	Manufacturing of portland cement by wet Process	
20	Properties of cement- Setting and hardening	
21	Heat of hydration and soudness of cement	
22	Introduction of Nuclear fuels and power generation	
23	Nuclear binding energy & its curve	
24	Nuclear fusion and fission reactions and critical mass	
25	Components of Nuclear power reactor and breeder reactors	
	UNIT 4	
	Fuels and Lubricants	
25	Introduction of Fuels and its classification	
26	Calorific value and its type- net and gross calorific value	

27	Analysis of Coal, proxiamte and its significance	
28	Ultimate analysis and its significance	
29	Cracking of petroleum fractions, Use of gasoline and diesel in internal combusion engines	
30	Knocking, chemical constitution and knoking properties, octane and cetane number	
31	Introductuion of Lubricants and its classification, Machanism of Lubrication	
32	Testing of lubricants for viscosity and viscosity index, flash and fire point	
	UNIT 5	
	Polymer, Resin/Plastic and Rubber	
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 of Bakelite,	
39	Introduction of Natural rubber, vulcanization	
40	Preparation, properties and uses of synthetic rubber-styrene, nitrile and butyl rubber	
	UNIT 6	
	Environmental Chemistry	
41	Introduction, Segments of environment-lithosphere, hydrosphere, biosphere & atmosphere	
42	Structure of Atmosphere, Green House effect	
43	Acid rain- causes & conequences,	
44	Ozone depletion	
45	Method and equipmets for controlling of particulate emmision: Wet scrubber, Facric filter	
46	Method and equipmets for controlling of particulate emmision: Cyclone seperators	
47	Method and equipmets for controlling of particulate emmision: Electrostatic Precipitators	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

A.Y.: 2017 - 18 **Lesson Plan**

Name of Faculty :- Prof. Dr. N. B. Ingale		Semester : I
Subject:	Engineering Physics (112)	Section : B
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 spetrograph	
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	

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

Lesson Plan

AY: 2017-18

Name of Faculty :- Prof. C. T. Brajapati		Semester: I
Subject:	Engineering Mechanics	Section : I
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	VIRTUAL WORK- Work of a force	
18	VIRTUAL WORK- Principle of virtual work	
19	VIRTUAL WORK- Principle of virtual work and its application.	
20	CENTRE OF GRAVITY- First moment of an area and centroid, second moment andproduct 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	
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	

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

AY:- 2017-18 **Lesson Plan**

Name of Faculty :- Prof. J. P. Morey		Semester:- I
Subject: Engg. Drawing	Subject Code:- 1A4	Section:- D

Lecture No.	Topics	Remark
	Unit 1 - Engineering Curves	
1	Introduction and construction of ellipse	
2	Construction of parabola	
3	Construction of hyperbola	
4	Construction of Cycloid, Epi-cycloid & Hypo-cycloid	
5	Involute	
6	Involute	
7	Locus problems on four bar chain mechanism	
8	Locus problems on Simple slider crank mechanism	
	Unit 2 - Introduction to Projection	
9	Introduction	
10	Projection of points by 1st angle method	
11	Projection of points by 3rd angle method	
12	Projection of line by 1st angle method & 3rd angle method	
13	Projection of line by 1st and 3rd angle method (Inclined to one plane)	
14	Projection of line inclined to both plane.	
15	Projection of plane (By using different type of plane)	
16	Projection of plane (By using auxiliary plane method)	
	Unit 3 - Orthographic Projection	
17	Introduction	
18	Problems on orthographic projection by first angle method	
19	Problems on orthographic projection by first angle method	
20	Problems on orthographic projection by first angle method	
21	Problems on orthographic projection by third angle method	
22	Problems on orthographic projection by third angle method	
23	Problems on orthographic projection by third angle method	

Lecture No.	Topics	Remark
	Unit 4 - Projection of Solids	
24	Introduction	
25	Projection of Prism (By using different resting conditions)	
26	Projection of Prism (By using different resting conditions)	
27	Projection of Pyramid (By using different resting conditions)	
28	Projection of Pyramid (By using different resting conditions)	
29	Projection of Cone (By using different resting conditions)	
30	Projection of Cylinder (By using different resting conditions)	
	Unit 5 - Section of Solids	
31	Introduction	
32	Section of prism by different cutting plane (By using different resting conditions)	
33	Section of prism by different cutting plane (By using different resting conditions)	
34	Section of pyramid by different cutting plane (By using different resting conditions)	
35	Section of pyramid by different cutting plane (By using different resting conditions)	
36	Section of cone by different cutting plane (By using different resting conditions)	
37	Section of cylinder by different cutting plane (By using different resting conditions)	
	Unit 6 - Isometric Views and Projection	
38	Introduction	
39	Problems on isometric views	
40	Problems on isometric views	
41	Problems on isometric views	
42	Problems on isometric views	
43	Problems on isometric projection	
44	Problems on isometric projection	
45	Problems on isometric projection	

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

AY:- 2017-18

Lesson Plan

Name of Faculty :- D. G. More | Semester:- I

Subject : Engg. Mathematics - I | Subject Code:-1A1/10082 | Section : X

Lect No.	Topics	Remark
1	Unit 1:-Introduction of syllabus & university Examination Pattern.	
2	Succesive differentiation	
3	nth derivative	
4	Leibnitz's theorem on the nth derivative of a product 1.	
5	Leibnitz's theorem on the nth derivative of a product2.	
6	Expansion of a function by using Taylor's theorem.	
7	Expansion of a function by using Maclaurin's theorem.	
8	Indeterminate form 1	
9	Indeterminate form 2	
10	Indeterminate form 3	
11	Unit 2:-Introduction of partial differentiation	
12	Partial differentiation 1.	
13	Partial differentiation 2.	
14	Total differential coefficients 1.	
15	Total differential coefficients 2.	
16	Exact differential.	
17	Euler's theorem on homogeneous function 1.	
18	Euler's theorem on homogeneous function 2.	
19	Transformation of independent Variables 1.	
20	Transformation of independent Variables 2.	
21	Unit 3:-Introduction of Jacobian and Maxima & Minima	
22	Jacobians of Explicit function.	
23	Jacobians of Implicit function 1.	
24	Jacobians of Implicit function 2.	
25	Properties of Jacobians.	
26	Functional dependence.	
27	Maxima and Minima of a function of two independent variable 1.	
28	Maxima and Minima of a function of two independent variable 2.	
29	Lagrange's method of undetermined multipliers 1.	
30	Lagrange's method of undetermined multipliers 2.	
31	Unit 4:-Introduction of Complex Number	
32	Demoiver's theorem.	
33	Application of Demoiver's theorem 1.	
34	Application of Demoiver's theorem 2.	
35	Hyperbolic and Inverse hyperbolic function 1.	
36	Hyperbolic and Inverse hyperbolic function 2.	

37	Separation of real and Imaginary parts 1.	
38	Separation of real and Imaginary parts 2.	
39	Logarithm of Complex number 1.	
40	Logarithm of Complex number 2.	
41	**Unit 5**:-Introduction Ordinary differential equation of first order and first degree	
42	Variable Seprable	
43	Reducible to Variable Seprable	
44	Linear differential equation.	
45	Reducible to Linear differential equation.	
46	Homogeneous differential equation.	
47	Reducible toHomogeneous differential equation.	
48	Exact differential equation.	
49	Reducible to Exact differential equation.	
50	Methods of Substitution.	
51	**Unit 6**:-Introduction of differential equation of first order and higher degree.	
52	Solvable for P 1.	
53	Solvable for P 2.	
54	Solvable for Y 1.	
55	Solvable for Y 2	
56	Solvable for X	
57	Application of D.E of first order and higher degree to the Problem on orthogonal trajectories 1.	
58	Application of D.E of first order and higher degree to the Problem on orthogonal trajectories 2.	
59	Application of D.E of first order and higher degree to the Problem on Electrical Engineering 1.	
60	Application of D.E of first order and higher degree to the Problem on Electrical Engineering 2.	

35	Meaning and use of Rectification
36	Rectification in cartesian coordinates
37	Rectification in cartesian coordinates
38	Rectification in polar coordinate
41	Unit V : Introduction to Double integration
42	Evaluation of Double integration
43	Change the order of integration
44	Change the order of integration
45	Double integration in polar coordinates
46	Changing from cartesian to polar coordinates
47	Changing from cartesian to polar coordinates
48	Evaluation of Area by Double integration
49	Evaluation of Area by Double integration
50	Evaluation of Area by Double integration
51	Unit VI : Introduction and meaning of triple integration
52	Triple integration in cartesian coordinates
53	Triple integration in cartesian coordinates
54	Triple integration in Cylandrical polar coordinates
55	change to spherical polar coordinates
56	Solution of simultaneous equations by matrix method.
57	Volume of solid by triple integration
58	Introduction to mean and R.M.S values
59	Examples of Mean values:
60	Examples of R.M.S values:

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

AY:- 21017-18 **Lesson Plan**

Name of Faculty :- Prof. P. P. Thosare		Semester:- II
Subject: [redacted] Electrical Engineering		Section : D
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	Maximum Power transfer 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 magnetic circuit	
16	Series magnetic circuit with air gap	
17	Series magnetic circuit without air gap	
18	Numerical on series magnetic circuit	
19	Principles of electromagnetic induction	
20	Self and mutual induction	
21	Magnetization curves	
	Unit – III : AC fundamentals	
22	RMS and average values, Form factor, peak factor (for sinusoidal waveform only)	
23	Purely resistive, inductive & capacitive circuit	
24	Single phase AC Series circuit with resistance , inductance & Capacitance	

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

Department of First Year Engineering Department

AY:-	2017-18 **Lession Plan**	
Name of Faculty :- Prof. Shailesh S. Dhok		Sem:- IInd
Subject : **Computer Programming** Subject Code:-1B3		Section : B
Lect No.	Topics	Remark
Unit-I	**Problem Solving**	
Lect1	Organization of PC.	
Lect2	Basic concepts of problem solving on computer.	
Lect3	Input-Process-Output cycle.	
Lect4	Algorithms, Flowcharts.	
Lect5	Algorithm development.	
Lect6	Algorithms for sorting and searching .	
Lect7	Algorithm-Bubble sort with examples.	
Lect8	Algorithm-Insertion sort with examples.	
Lect9	Algorithm-Binary search with examples.	
Lect10	Algorithm-Linear search with examples.	
Unit-II	**C Fundamentals:**	
Lect11	Introduction to C language.	
Lect12	First C program.	
Lect13	Program execution.	
Lect14	Keywords, Character set.	
Lect15	Built in Data Types, Variables.	
Lect16	Expressions.	
Lect17	Operators & their precedence, Assignment statement.	
Lect18	I/O using scanf( ) and printf( ) functions.	
Lect19	Format specifiers for scanf( ) and printf( ) functions.	
Lect20	Examples of C-program.	
Unit-III	**C Control constructs:**	
Lect21	Decision-making using if statement.	
Lect22	Decision-making using if-else statement.	
Lect23	Decision-making using switch-case statements.	
Lect24	Loop using for with examples.	
Lect25	Loop using whilewith example.	
Lect26	Loop using do-while statementwith example.	
Lect27	Break and continue statements.	
Lect28	Functions: declaration.	
Lect29	Functions: declaration,with examples.	

Lect30	Functions:Parameter passing mechanism.	
Unit - IV	**Scope Rules and Arrays:**	
Lect31	Storage classes: automatic, static.	
Lect32	Storage classes: extern, register type.	
Lect33	Introduction to arrays: single dimensional.	
Lect34	Introduction to arrays: multi-dimensional.	
Lect35	Programs for single dimensional and multi dimensional arrays.	
Lect36	Strings:Introduction of strings.	
Lect37	Strings: Arrays of strings .	
Lect38	String related functions with examples.	
Lect39	Programs for Searching the arrays of strings.	
Lect40	Programs for sorting the arrays of strings.	
Unit - V	**Pointers:**	
Lect41	Definition and uses of pointers.	
Lect42	Address of operator with examples.	
Lect43	Pointer arithmetic with examples.	
Lect44	Pointers and functions with examples.	
Lect45	Parameter passing mechanism using pointer.	
Lect46	Pointer passing mechanism : examples.	
Lect47	Pointers and Arrays with examples.	
Lect48	Arrays of pointers with examples.	
Lect49	Pointer and Strings with examples.	
Lect50	Pointer and Strings with examples.	
Unit - VI	**Structures and Files:**	
Lect51	Declaring and using the Structures.	
Lect52	Operation on structures.	
Lect53	Arrays of structurers.	
Lect54	Pointers to structures.	
Lect55	Introduction of union with examples.	
Lect56	Unions and their comparison with Structures.	
Lect57	Introduction to Files.	
Lect58	File types.	
Lect59	File handling functions with examples.	
Lect60	Command line arguments.	

2017-18
SEM I/II

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

AY: 2017-2018

Name of Faculty: Prof. DR. K. D. UMALEY		
Subject:	Engineering Chemistry	Semester: I/II
Lecture No.	Topics	Section : Remark
	UNIT 1	
	Water Technology	
1	Introduction, Hardness of water	
2	Types of hardness - temporary & permenant hardness	
3	Units of Hardness and their inter-conversion	
4	Hardness determination by EDTA method	
5	Softening of hard water by lime soda process	
6	Softening of hard water by zeolite process and Ion exchange process	
7	Softening of hard water by	
8	Numerical Problem based on lime soda process	
9	Numerical Problem based on Zeolite process	
	UNIT 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	Galvonic 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 3	
	Portland Cement, Nuclear Fuels & Power Generation	
17	Introduction of Portland cement	
18	Raw materials for the manufacturing of portland cement	
19	Manufacturing of portland cement by wet Process	
20	Properties of cement- Setting and hardening	
21	Heat of hydration and soudness of cement	
22	Introduction of Nuclear fuels and power generation	
23	Nuclear binding energy & its curve	
24	Nuclear fusion and fission reactions and critical mass	
25	Components of Nuclear power reactor and breeder reactors	
	UNIT 4	
	Fuels and Lubricants	
25	Introduction of Fuels and its classification	
26	Calorific value and its type- net and gross calorific value	

Department of Management Studies
Semester –I
Teaching Plan
Subject: Accounting for Managers
Subject Teacher: Prof. T. A. Paralkar

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. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996 Accounting for Mgt., Khan and Jain.	01	
	02	Double Entry System, Basic Accounting Terms		01	
	03	Financial Accounting, Management Accounting & Cost Accounting		01	
	04	Accounting Standards: Introduction, GAAP		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. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996 Accounting for Mgt., Khan and Jain.	01	
	02	Journal Entries		01	
	03	Ledger Preparation		01	
	04	Trial Balance		02	
	05	Preparation of Trading Account, Manufacturing Account: Part 1		01	
	06	Profit and Loss Account		01	
	07	Understanding Balance Sheet		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	House. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New		
	03	Inventory Valuation Methods – Part I		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. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996 Accounting for Mgt., Khan and Jain.	01	
	02	Budget & Budgetary control: Part I		01	
	03	Budget & Budgetary control: Part II		01	
	04	Budget & Budgetary control: Part III		01	
	05	Performance & zero Based Budgeting		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. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996 Accounting for Mgt., Khan and Jain.	01	
	02	Types of Costing, Costing for Decision Making		01	
	03	Marginal Costing: Part I		01	
	04	Marginal Costing: Part I		01	
	05	Absorption Costing: Part I		01	
	06	Absorption Costing: Part II		01	
	07	Case Study and Situation		01	
Total Lecture				**07**	

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

PRMITR-Department of Management Studies
MBA-Semester –I
Teaching Plan

Subject: Business Ethics **Subject Teacher: S. G. Pethe**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	DATE
I		***INDIAN MANAGEMENT**			
	1.1	Indian Management – Principles	*Business Ethics, CSV Murthy, Himalaya Publications. *Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	02	
	1.2	Models & Theory of Karma,		02	
	1.3	Theory and Practices of Holistic Management and its relevance		02	
	1.4	Case Problem		01	
	1.5	Case Study		01	
		TOTAL LECTURES		**08**	
II		***ETHICS**			
	2.1.	Ethics – Meaning & Objectives Sources of Ethics	*Business Ethics, CSV Murthy, Himalaya Publications. *Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	02	
	2.2.	Types of Business Ethics		01	
	2.3.	Factors influencing Business Ethics		01	
	2.4.	Ethics V/s Morals and Values		01	
	2.5.	Case Problem		01	
	2.6	Case Study		01	
		TOTAL LECTURES		**07**	
III		***MANAGING ETHICS**			
	3.1.	Managing Ethics – Theories of Ethics	*Business Ethics, CSV Murthy, Himalaya Publications. *Indian Ethos and Values ,N.M.Khandelwal, Himalaya Publications	01	
	3.2.	Ethical Dilemma		01	
	3.3.	Codes of Ethics		01	
	3.4.	Normative Ethics in Management		01	
	3.5.	Need and Values of Ethics in Global Change		01	
	3.6.	Behavioral Aspects of Ethics and Values		01	
	3.7	Case Problem		01	
	3.8	Case Study		01	
		TOTAL LECTURES		**08**	

IV	4.1. 4.2. 4.3. 4.4 4.5	***INDIAN VALUES IN MANAGEMENT** Indian Values in Management – Secular and Spiritual Values Science and Human Values Lessons from Ancient Indian Educational System Case Problem Case Study **TOTAL LECTURES**	*Business Ethics, CSV Murthy, Himalaya Publications. *Indian Ethos and Values ,N.M.Khandel wal, Himalaya Publications	01 01 02 01 01 **06**	
V	5.1. 5.2. 5.3. 5.4. 5.5 5.6	***STRESS MANAGEMENT** Stress Eustress & distress Indian Perspective of Stress Management, Reasons for stress at workplace Coping with a stress **Case Problem** **Case Study** **TOTAL LECTURES**	*Business Ethics, CSV Murthy, Himalaya Publications. *Indian Ethos and Values ,N.M.Khandel wal, Himalaya Publications	01 01 01 01 01 01 **06**	

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

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

Department of Management Studies					
Semester – I (Session 2017-2018)					
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 2017-2018)
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	**36**	

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

Department of Management Studies				
Semester –I (Session 2017-2018)				
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	Uniersity 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	Uniersity 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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Department of Management Studies

Semester –I (Session 2017-2018)

Subject: **MBA/ 105 Organizational Behavior and Effectiveness**

SUBJECT TEACHER: Prof. Y. R. Vaidya

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to Organizational & Individual Behavior	Organizational Behaviour-Aswathappa, K. Organizational Behaviour- Robbins, Judge, Vohra	1	Total Lectures for Unit I: 7
	2	Personality		1	
	3	Activity on personality traits & case study		1	
	4	Learning-concepts and activity		1	
	5	Perception-concept and cases		1	
	6	Attitude & Beliefs		1	
	7	Case Study		1	
II	1	Group Behavior – Meaning	Organizational Behaviour-Aswathappa, K. Organizational Behaviour-Fred Luthans Organizational Behaviour- Robbins, Judge, Vohra	1	Total Lectures for Unit II: 8
	2	Types of Groups-Concept & application		1	
	3	Group Process- concept and activity		1	
	4	Group Dynamics (Videos on group dynamics)		2	
	5	Group Dynamics – factors influencing intergroup behavior and managing intergroup behavior		2	
	6	Case Study		1	
III	1	Organizational Change – Concept & Need	Organizational Behaviour-Aswathappa, K. Organizational Behaviour-Fred Luthans Organizational Behaviour- Robbins, Judge, Vohra	2	Total Lectures for Unit III: 7
	2	Change Process (video on organizational change)		2	
	3	Reasons for Resistance to Change- concept and activity		1	
	4	Measures to Overcome Resistance to Change		1	
	5	Case Study		1	
IV	1	Organizational Processes – Organizational Power	Organizational Behaviour-Aswathappa, K. Organizational Behaviour-Fred Luthans Organizational Behaviour- Robbins, Judge, Vohra	2	Total Lectures for Unit IV: 7
	2	Organizational Politics-concept and video		2	
	3	Empowerment & Conflict –concept and activity		2	
	4	Case Study		1	
V	1	Organizational Effectiveness – Creativity and Innovation- concept and activity	Organizational Behaviour-Aswathappa, K. Organizational Behaviour-Fred Luthans Organizational Behaviour- Robbins, Judge, Vohra	2	Total Lectures for Unit V: 7
	2	Corporate Governance		2	
	3	Management of Gender Issues		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, PRMIT&R, Badnera-Amravati.

Lesson Plan Year 2017-2018

Subject: Principle and Practices of Management (101)
Subject Teacher: Prof. M. S. Sadar

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, 9th 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, 9th 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, 9th 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, 9th 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, 9th 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**	

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

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

Semester – (Session 2017-2018)

Subject: Quantitative Methods

SUBJECT TEACHER: Prof. N. M. Gawande

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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Department of Management Studies

Semester –II (Session 2017-2018)

Subject: Business Environment

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	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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Prof. Ram Meghe Institute of Technology & Research, Badnera
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Lesson Plan

Subject: Financial Management

Semester –II (Session 2017-2018)
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	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 2017-2018)

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**	
	2	Knowledge Creation and Management		**1**	**201-208**
	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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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: Logistic Management
Semester –II (Session 2017-2018)
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
P.R.M.I.T. & R. Badnera

Department of Management Studies Semester –II (Session 2017-2018)

Teaching Plan

Subject: Marketing Management.

Subject Teacher: Prof. S.G. Pethe

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 Signficance		1	
	6	Case Study		1	
		Total Lectures		**6**	
				36	

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

Department of Management Studies(M.B.A.)
Semester – (Session 2017-2018)
Subject: Management Science
SUBJECT TEACHER: Prof. T. A. Paralkar

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

Department of Management Studies

Semester –II (Session 2017-2018)

Teaching Plan

Subject: Production & Operations Management **Subject Teacher:Prof.S.B.Diwan**

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	
	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	
	3.	Production Scheduling		1	
	4.	Industrial Safety			
	5.	Case Study		1	
III	1.	Capacity planning- Measures, strategies, Aggregate Planning, Quality assurance, Quality control,	Martand Telsang Chary S.N.; Mahajan	3 2	
	2.	Statistical quality control- concept & types of control charts.		2	
	3.	TQM- ISO 9000, Quality circles.			
	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 3	
	2.	Inventory control- objectives, scope, inventory models & their applications.		1	
	3.	Case Study			

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

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

Department of Management Studies
Semester –II (Session 2017-2018)
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
P.R.M.I.T. & R. Badnera

Department of Management Studies

Odd-Semester – III (Session 17-18)-Teaching Plan

Subject Teacher**:**Prof.T. A. Paralkar **Subject: BS (108)**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted
I	1 2 3 4	Banking system in India-Indigenous Bankers, Commercial Banks, Co-operative Banks, Regional Rural Banks-Private Sector Banks, Foreign Banks, Merchant Banking, Banking Sector Reforms, Primary, Secondary and Subsidiary Functions of Banks, Banking Innovation, Globalization of Indian Banking Sector, Banking in New Millennium.	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	1 1 2 2 1
		Total		**07**
II	**1.** **2.** **3.**	Banking Regulation-Banking business, Capital requirement, management, licensing, new branches, loans and advances, NPA'S, Acquisition of Business, Winding up andAmalgamation, major issues of banking, Bank Management.	Vasant Desai, Bank Management, Himalaya Publishing House.	3 2 2
		Total		**07**
III	**1.** **2.** **3.** **4.**	Central Banking: Concept and Meaning, Major CentralBanks, Reserve Bank of India, it's role and functions, Banking Regulation by RBI,RBI & Agricultural Credit, Industrial Finance and Bill Market System.	S. Gurusamy, "Banking Theory: Law and Practices," Tata McGraw Hill 2nd Ed., 2009.	2 1 1 2
		Total		**07**
IV	**1.** **2.** **3.** **4.**	Commercial Banking: Concept and Scope, Commercial Banking Risk Management Functions and Services of Commercial Banks, Credit Management,Installation and Significance of Sound Credit Culture	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	2 2 1 3
		Total		**08**
V	**1.** **2.** **3.** **4.**	Upcoming Issues in Banking, Customer Services, CRM, Human Resource Management, Financial Management, Marketing Management of banking services, New Trend in Banking	Vasant Desai, Bank Management, Himalaya Publishing House.	3 1 1 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 2017-2018)

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 Business Law- S. N. Maheshwari Mercantile Law- N. D. Kapoor ICAI Notes	1	Total Lectures for Unit I: 8
	2	Void agreements - cases		2	
	3	Performance of contract		2	
	4	Breach of contract and its remedies		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 Business Law- S. N. Maheshwari Mercantile Law- N. D. Kapoor	1	Total Lectures for Unit II: 7
	2	Essential features-sale & agreement		1	
	3	Types of goods-condition& warranty-cases		1	
	4	Passing of property & Formation of Contract		2	
	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 Business Law- S. N. Maheshwari Mercantile Law- N. D. Kapoor ICAI Notes	2	Total Lectures for Unit III: 7
	2	Type of negotiable instruments		1	
	3	Negotiation and assignment, Holder in due course		1	
	4	Dishonor and discharge of negotiable instrument		2	
	5	Case Study		1	
IV	1	The Companies Act 1956: Nature And Type Of Companies	Business Law- S S Gulshan Business Law- S. N. Maheshwari Mercantile Law- N. D. Kapoor	2	Total Lectures for Unit IV: 7
	2	Formation of companies		1	
	3	Memorandum and Article of Association		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 Business Law- S. N. Maheshwari Mercantile Law- N. D. Kapoor	2	Total Lectures for Unit V: 7
	2	IT Act 2000		1	
	3	Cyber laws with specific reference to e-commerce		1	
	4	Intellectual Property Law		1	
	5	Patents and copyright.		1	
	6	Case Study		1	
			Total Lectures Required: 36		

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

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

Lesson Plan

Subject: International Financial Management

Semester –IIIrd (Session 2017-2018)
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
P.R.M.I.T. & R, Badnera

Department of Management Studies

Semester –III (Session 2017-2018)

Teaching Plan

Subject: Indian Financial System

Subject Teacher: Prof. N. M. Gawande

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 M Vora :- Indian financial system Anmol Publications	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
P.R.M.I.T. & R. Badnera

Department of Management Studies

Semester –III (Session 2017-2018)

Teaching Plan

Subject: Investment Science

Subject Teacher: Prof. M.S. Sadar

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
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Department of Management Studies

Semester –III (Session 2017-2018)

Teaching Plan

Subject: Risk Management

Subject Teacher: Prof. T. A. Paralkar

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

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

Lesson Plan

Subject: Working Capital Management

Semester –IIIrd (Session 2017-2018)
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	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
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Department of Management Studies				
Semester –III (Session 2017-2018)				
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
P.R.M.I.T. & R. Badnera

.;Department of Management Studies - Semester –III (Session 2017-2018) - Teaching Plan

Subject: HR-3304/ Human Resource Development

Subject Teacher: Prof. M. S. Sadar

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

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Department of Management Studies				
Semester – III (Session 2018-2019)				
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 Compensation		
	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	Paymentof 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/frmReportLaws33.aspx	1
	24	(Case Study)	University Question Papers	1

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Department of Management Studies - Semester –III (Session 2017-2018)

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. 2. 3. 4. 5. 6. 7.	IR Introduction (Durga Steel Plant) Industrial Relations Perspectives Importance of IR Socio Economic Conditions IR & Socio Economic Scenario –I IR & Socio Economic Scenario –II IR & State, Case Study	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N. Sinha,Indu bala Sinha, Seema P.Shekhar	01 01 01 01 01 01 01	
		Total		**07**	
II	1. 2. 3. 4. 5. 6. 7. 8.	Role of Trade Union Future of Trade Unions Employee Perspectives Trade Union & Employees (Maruti Suzuki) Trade Union & Management Role Of Management Trade Union in MNC's. Case Let (Video on strike)	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N. Sinha,Indu bala Sinha, Seema P.Shekhar	01 01 01 01 01 01 01 01	
		Total		**08**	
III	1. 2. 3. 4. 5. 6. 7.	Grievance Discipline Grievance Conflicts, Grievance Dispute Grievance Management, Negotiation Collective Settlements. Case Let	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N. Sinha,Indu bala Sinha, Seema P.Shekhar	01 01 01 01 01 01	
		Total		**07**	
IV	1. 2. 3. 4. 5. 6.	Participative Management Techniques Scope And Importance Co-Ownership Productive Bargaining – I Productive Bargaining - II Case Study	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N. Sinha,Indu bala Sinha, Seema P.Shekhar	01 02 01 01 01 01	
		Total		**07**	
V	1. 2. 3. 4. 5. 6. 7.	IR , Employees Empowerment - I Employee Empowerment - II Quality Circles, IR & Technological Change, Conciliation arbitrations adjudication Role of labour administration. Case Study	1. Industrial Relation- By C.S.Venkata Ratnam 2. Ind Relation,Trade Unions & Labour Legislation - By P.R.N. Sinha,Indu bala Sinha, Seema P.Shekhar	01 01 01 01 01 01 **01**	
		Total		**07**	
		Total Lectures		**36**	

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Odd-Semester – III (Session 2017-18)-Teaching Plan

Subject Teacher**:** Prof.Minal M.Nistane **Subject: MTD**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1 2 3 4 5 6 7	Training – a change agent, Video Training Environment Pre – T raining module-Formats Counseling for Training, Training Costs Training Investment Case Study	**"Training & Development Methods" by Dr. Rishipal & Scholary Articles**	2 1 1 1 1 1 1	
		Total		**08**	
II	1. 2. 3. 4.	Training Functions, Training Needs Assessment Action Research-Module Organizational Objectives and Training Case Study	**"Training & Development Methods" by Dr. Rishipal & Lynton and Pareek**	2 2 2 1	
		Total		**07**	
III	1. 2. 3. 4. 5	Introduction of Learning & Learning Process Organizational Training Climate Development and Designing Training Modules Formats of training Sheet, Case Study	**"Training & Development Methods" by Dr. Rishipal**	2 2 2 1	
		Total		**07**	
IV	1. 2. 3. 4. 5	Training Methods Techniques & Pedagogy Training aids & Tools Facilities for Training Case Let's	"Training & Development Methods" by Dr. Rishipal & Scholary Articles	2 2 1 1 1	
		Total		**07**	
V	1. 2. 3. 4.	Training Feedback Evaluation Training Audit Training as Continuous Process Case Study	"Training & Development Methods" by Dr. Rishipal & Journals	2 2 2 1	
		Total		**07**	**36**

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Semester –III (Session 2017-2018)

Subject: **MBA/3306/H Performance Management**

SUBJECT TEACHER: Prof. Y. R. Vaidya

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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Semester –III (Session 2017-2018)

Subject: Advertising Management (MBA/3204/M)

SUBJECT TEACHER: Prof. S. G. Pethe

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
	1	Nature, Type & Functions of Advertising -I	Batra, Advertising Management, Pearson Education, 5th ed., 2003.	1	
	2	Nature, Type & Functions of Advertising -II		1	
	3	Scope and Role of Advertising in Market place		1	
	4	Economic Aspects of Advertising		1	
	5	Ethical Aspects of Advertising		1	
	6	Social Aspects of Advertising		1	
I	7	Case Study on Unit I		1	
	1	Marketing Communication,	Kulkarani M.V., Advertising Management, 4th ed., 2003	1	
	2	Process of Communication& its flow		1	
	3	Types of Communication Systems		1	
	4	Advertising Effect Models-I		1	
	5	Advertising Effect Models-II		1	
	6	Advertising Effect Models-III		1	
II	7	Case Study on Unit II		1	
	1	Advertising Planning & Objectives	Chunawalla & Others, Advertising Theory and Practice, 7th ed., 2002, Himalaya Publishing House.	1	
	2	DAGMAR Approach		1	
	3	Building of Advertising Program-Message & Headline		1	
	4	Building of Advertising Program-Copy & Logo		1	
	5	Building of Advertising Program-Copy & Logo		1	
	6	Building of Advertising Program-Illustration & Appeals		1	
	7	Building of Advertising Program-Layout		1	
III	8	Case Study on Unit III		1	
IV	1	Media Planning & Strategies	Batra, Advertising Management, Pearson Education, 5th ed., 2003	1	
	2	Media Buying – Broadcast & Print		1	
	3	Advertising Budget – Allocation		1	
	4	Advertising Budget – Approaches		1	
	5	Advertising Budget – Influence factors		1	

	6	Case Study on Unit IV		1	
	1	Advertising Campaign Planning	Batra, Advertising Management, Pearson Education, 5th ed., 2003	1	
	2	Advertising Organization –Selection		1	
	3	Advertising Organization –Comprehension		1	
	4	Appraisal of Advertising Agencies-I		1	
	5	Appraisal of Advertising Agencies-II		1	
	6	Web Advertising		1	
V	7	Case Study on Unit V		1	

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Semester –III (Session 2017-2018)

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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Semester –III (Session 2017-18)

Teaching Plan

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 if Any
I	1. 2. 3. 4. 5. 6. 7.	Expansion of International Markets International Marketing Decisions Scope of Marketing Indian Products Abroad Multinational Enterprises International Trade Case Study	1. International Marketing-By Rakesh Mohan Joshi . 2.Interantional Marketing Text & Cases-By Francis Cherunilam	01 01 01 01 01 02	
		Total Lectures		**07**	
II	1. 2. 3. 4. 5. 6. 7.	Global Strategic Planning Case Let Political Risk & Negotiations Strategy Case Let Market Selection Market Entry Strategy Market Coverage Strategy	Interantional Marketing Text & Cases-By Francis Cherunilam	01 01 01 01 01 01 01	
		Total Lectures		**07**	
III	1. 2. 3. 4. 5. 6.	International Product Decisions & Strategies Case Let International Pricing Decisions & Strategies Case Let International Distribution Channel Decisions & Strategies Case Study	Interantional Marketing Text & Cases-By Francis Cherunilam	01 01 01 01 01 02	
		Total Lectures		**07**	
IV	1. 2.	International Marketing Intelligence	Interantional	01 01	

	3. 4. 5. 6.	Case Let International Promotion Strategy Case Let Export Procedure & Documents Case Let	Marketing Text & Cases-By Francis Cherunilam	01 01 01 01	
		Total Lectures		**06**	
V	1. 2. 3. 4. 5. 6. 7.	Quality Control & Pre-shipment Inspection Issues in International Business Business Ethics Social Responsibility of Business Environment Issues Labour Issues Case Study(2)	1. Interantional Marketing Text & Cases-By Francis Cherunilam 2. International Business –By Justin Paul	01 01 01 01 01 01 02	
		Total Lectures		**08**	

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Department of Management Studies

Semester –III (Session 2017-2018)

Subject: Consumer Behaviour (MBA/3203/M)

SUBJECT TEACHER: Prof. S. B. Diwan

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

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Department of Management Studies
Semester –III (Session 2017-2018)
Teaching Plan

Subject: Brand Management **Subject Teacher: Prof. S. G. Pethe**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	a) b) c) d) e) f) g) h) **TOTAL LECTURES**	Concept of Brand. Brand Evolution. Brand Hierarchy. Brand Image. Brand Identity – Perspectives. Brand Identity – Levels. Brand Identity – Prism. CASE STUDY	*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2nd Edition, 2008	01 01 01 02 01 01 01 01 **09**	
II	a) b) c) d) e) f) g) **TOTAL LECTURES**	Brand Personality. Brand Positioning. Brand Repositioning. Brand Equity. Types of Branding – Product, Line, Range. Umbrella & Endorsement Branding. CASE STUDY	*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2nd Edition, 2008	02 01 01 02 01 01 01 **09**	
III	a) b) c) d) e) f) **TOTAL LECTURES**	Brand Creation. Brand Product Relationship. Brand Portfolio. Brand Elimination. Brand Revitalization. CASE STUDY	*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2nd Edition, 2008	01 01 02 01 01 01 **07**	

IV	a) b) c) d) **TOTAL LECTURES**	Managing Brands. Brand Extensions. Financial Aspects of Brands. CASE STUDY.	*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2nd Edition, 2008	01 01 02 01 **05**	
V	a) b) c) d) e) **TOTAL LECTURES**	Branding in different sectors. Retailers. Industrial. Services. High-tech products. CASE STUDY	*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2nd Edition, 2008	01 01 01 01 01 **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 2017-2018)
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Subject: Agro Business Management **Subject Teacher: A. V. Deshmukh**

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

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

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

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

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Odd-Semester – III (Session 2017-18)-Teaching Plan

Subject Teacher: Prof. T. A. Paralkar **Subject: FD (4103)**

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	1 2 3 4	Introduction to syllabus & Importance of subject Financial Derivatives- Introduction, Participants, its products, Feature. History of Derivative Market Myth about derivative market & its regulation in India	**"Financial Derivatives" by S.Chand**	1 2 1 2	
		Total		**06**	
II	**1.** **2.** **3.** **4.**	Forward Contract-Concept, & meaning Mechanism of Forward contract Concept of pricing of forwards Hedging in forward Contracts	**"Financial Derivatives" by S.Chand**	1 2 2 2	
		Total		**07**	
III	**1.** **2.** **3.** **4.**	Future Contract-Introduction, Concept Mechanism of Future Contract Types of Future-Pricing & Hedging Types o Future- Stock Index future	**"Futures & Options" by Gardener**	1 2 2 2	
		Total		**07**	
IV	**1.** **2.** **3.** **4.**	Options-Concept & Meaning Types of options Pricing of Options Black & Scholes Binomial Model Trading strategies involving options	**"Futures & Options" by Gardener**	2 2 1 2	
		Total		**07**	
V	**1.** **2.** **3.** **4.** **5.**	Swaps-Concept & meaning Mechanism of Interest rate swaps Mechanism of currency swaps Valuation of interest rate swaps Valuation of currency swaps	**"Financial Derivatives" by S.Chand**	1 2 2 2 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. 2017-2018)

Teaching Plan

Subject: Financial Decision Analysis (FDA) Prof. N. M. Gawande

Subject Code: - MBA/4101/CGF

Day	Topic No.	Topic	Text & Refernces	Unit
1	1.2	Introduction To Financial Decsion 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 2017-2018)
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(M.B.A.)
Semester – (Session 2017-2018)
Subject: Insurance Management
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	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 Practics 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 Practics 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 Practics 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 AnnuityProducts		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 Practics 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
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Department of Management Studies

Semester –IV (Session 2017-2018)

Teaching Plan

Subject: Management and Financial Services

Subject Teacher: Prof. M. S. Sadar

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, *Emerging Scenario of Financial Services*, Himalaya Publishing House, 1997	01	
	02	Indian Financial Market : Primary & Secondary	Avadhani, V.A., *Investment Analysis Portfolio Management*, 2nd ed., 1999.	01	
	03	Nature and Scope of Financial Services	Gordan, E. and K. Natrajan, *Emerging Scenario of Financial Services*, 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, *Portfolio Management*.	01	
	02	Risk management		01	
	03	Stock Exchange in India	Bhalla, V.K., *Investment Management : Security Analysis and Portfolio Management*, 8th 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, *Emerging Scenario of Financial Services*, Himalaya Publishing House, 1997	01	
	07	Case Study		01	
		Total Lecture for Unit No 2nd		**07**	
III	**01**	Leasing	Gordan, E. and K. Natrajan, *Emerging Scenario of Financial Services*, 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 Agencies	Bhalla, V.K., *Investment Management : Security analysis and Portfolio Management*, New	01	
	02	Credit Card and their Types		01	

			Delhi, S.Chand, 2001		
	03	Mutual Fund	Gordan, E. and K. Natrajan, *Emerging Scenario of Financial Services*, Himalaya Publishing House, 1997	01	
	04	Advance banking	Vasant Desai, Development Banking and Financial Intermediaries, Economy, Himalaya Publishing House Pvt. Ltd. India 2008	01	
	05	Insurance and their types	O.P. Agrawal, Banking and Insurance, Economy, 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, Financial Management, Tata Mcgrawhill, 5th 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(M.B.A.)
Semester – (Session 2017-2018)
Subject: Security Analysis & Portfolio Management
SUBJECT TEACHER: Prof. T. A. Paralkar

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:Secutity Anaysis 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:Secutity Anaysis 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:Secutity Anaysis 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:Secutity Anaysis 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:Secutity Anaysis 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
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Department of Management Studies					
Semester –IV (Session 2017-2018)					
Subject: Strategic Management (MBA/401)					
SUBJECT TEACHER: 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	*Strategic Management- Francis Cherunilam*	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	*Strategic Management-John Pearce-* TMH	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	*Strategic Management-John Pearce-* TMH	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

Semester –IV (Session 2017-2018)

Subject: CLM

SUBJECT TEACHER: PROF. MADHURI SADAR

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 Trumph, Bill Gates		1	
	5	J.R.D. Tata, Dhirubhai Ambani, Ratan Tata		1	
	6	Case Study		1	

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MBA Teaching Plan 2017-18 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	Intellignece, 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, Dimensions, 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 2017-18 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 2017-2018)
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**	

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

Department of Management StudiesSemester –IV (Session 2017-2018)

Teaching Plan

Subject: Management Of Group Process

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	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**	
				36	

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

Department of Management Studies

Semester –III (Session 2017-2018)

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	• 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	• 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	• 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	• 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			
	06	Case Study	• HRM by P. Subba Rao • HRD by Werner Destmone	01	Details
Total Lecture				**08**	
V	01	Organizational Intervention	• 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**	

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

Department of Management Studies
Semester –IV (Session 2017-2018)
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, Expert 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**	

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

Department of Management Studies

Semester –III (Session 2017-2018)

Subject: Marketing for Non-Profit Organizations and Social Services

Subject Teacher: Miss. S. G. Pethe

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark if Any
I	01	Introduction	• 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	• 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	• Marketing Non	02	Many other

	02	Customer Targeting	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	• 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	• 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
P.R.M.I.T. & R, Badnera

Department of Management Studies

Semester –IV (Session 2017-2018)

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

SUBJECT TEACHER: Prof. S. G. Pethe

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 Services Marketing – Concepts, application and cases- Shajahan S.	1	
	4	Internal Marketing		1	
	5	Supplementary Services		1	
	6	Case Study & Practices		1	
V	1	Tourism and Travel Services Marketing		1	**Total=07**
	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
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Department of Management Studies

Semester –IV (Session 2017-2018)

Subject: Retail Marketing

SUBJECT TEACHER: Prof. S.R.Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	0.1	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
P.R.M.I.T. & R. Badnera

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

Lesson Plan
Subject: Rural Marketing
Semester –IV (Session 2017-2018)
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 C.S.G. Krishnamacharyulu & Lalitha Ramakrishnan, "Cases in rural marketing and integrated approach". 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		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
P.R.M.I.T. & R, Badnera

Department of Management Studies
Semester –III (Session 2017-2018)
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 Advertising, sales and promotion Management by S.A Chunawala Sales Promotion Management by Bir Singh	01	7
	02	Sales Promotion & Marketing Mix		02	
	03	Nature and Scope of Sales Promotion		01	
	04	Types of Sales Promotion		02	
	05	Case Study		01	
II	01	Consumer Behavior & sales Promotion	Sales Promotion & Advertising Management by M.N. Mishra Advertising, sales and promotion Management by S.A Chunawala Sales Promotion Management by Bir Singh	02	7
	02	Deal Prone consumer		02	
	03	Economic Theories of promotion		02	
	04	Case Study		01	
III	01	Sales Promotion's Impact on Sales	Sales Promotion & Advertising Management by M.N. Mishra Advertising, sales and promotion Management by S.A Chunawala Sales Promotion Management by Bir Singh	01	8
	02	Sales promotion experiments		02	
	03	Evaluation of Sales promotion experiments		02	
	04	Choice & purchase timing models		02	
	05	Case study		01	
IV	01	Introduction to Sales promotion planning	Sales Promotion & Advertising Management by M.N. Mishra Advertising, sales and promotion Management by S.A Chunawala Sales Promotion Management by Bir Singh	01	7
	02	Process of Sales promotion planning		02	
	03	Introduction to sales promotion budget		01	
	04	Process of sales promotion budget		01	
	05	Approaches to sales promotion budget		01	
	06	Case Study		01	
V	01	Designing Promotional strategies	Sales Promotion & Advertising Management by M.N. Mishra Advertising, sales and promotion Management by S.A Chunawala Sales Promotion Management by Bir Singh	02	7
	02	Strategic issues in designing promotional strategies		01	
	03	Substantive Findings Coupons		01	
	04	Issues on Coupons		01	
	05	Trade dealings		01	
	06	Case study		01	
			Total Lectures Required: 36		

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

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

(Even Semester AY: 2017-2018) Summer 2018

Session/Teaching Plan

Name of Faculty: Prof.Nilima D.Bobade **Year: FYMCA** **Section: A/B/DSE**

Subject Name: Data Structure and Algorithms **Sem: II** **Subject Code:** 2MCA

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject, syllabus, importance etc.	January	Week 2	1
2		Data structures basics			2
3		Mathematical/algorithmic notations & functions,			3,4,5
4		Complexity of algorithms, Subalgorithms. String		Week 3	1,2
5		processing: storing strings, character data type,			3,4
6		string operations, word processing,			5
7		first pattern matching algorithm		Week 4	1,2
8		second pattern matching algorithms			3,4
9	Unit II	Linear arrays and their representation in memory,		Week5	1,2
10		inserting operations,	February	Week1	1
11		deleting operations,			2
12		Bubble sort,			3
13		Linear search and Binary search algorithms.		Week 2	1,2
14		Multidimensional arrays, Pointer arrays.			3,4
15		Record structures and their memory representation			5
16		.Matrices and sparse matrices		Week3	1,2
17	UNIT III	Linked lists and their representation in memory,			3
18		traversing a linked list,			4
19		searching a linked list.		Week4	1,2
20		Memory allocation & garbage collection.			3
21		Insertion Operations			4,5
22		deletion operations on linked lists.		Week 5	1,2
23		Header linked lists, Two-way linked lists.	CH	Week 1	1
24	UNIT IV	Stacks and their array representation.		Week2	1
25		Push & Pop operation			2
26		Arithmetic expressions:Polish notation.			3
27		Evaluation of expression			4,5
28		Quick sort, an application of stacks,			1,2

29	I	Recursion.Tower of Hanoi problem.	MARC	Week3	3
30		Implementation of recursive procedures by stacks			4,5
31		Queues. Deques. Priority queues.		Week 4	1,2
32	UNIT V	Trees, Binary trees & and their representation in			3
33		Traversing binary trees.			4,5
34		Traversal algorithms using stacks,		Week 5	1
35		Traversal algorithms using stacks,			2
36		Headernodes: threads.	APRIL	Week 1	1
37		Binary search trees, searching,			2
38		inserting in binary trees			3,4
39		deleting in binary trees.			5
40		Heap and heapsort.		Week2	1
41		Path length &Huffman's' algorithm. General trees			2
42	Unit VI	Graph theory, sequential representation of graphs,			3
43		Warshalls'algorithm			4
44		operations & traversing thegraphs.		Week 3	1
45		Posets & Topological sorting.			2
46		SelectionSort.			3
47		Insertion Sort			4
48		Merging & Merge-sort	Extra Lect. 1		1
49		Radix sort,	Extra Lect. 2		2
50		Hashing.	Extra Lect. 3		3

N D Bobade

In-Charge Faculty
Prof.N.D.Bobade

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

(Odd/Even Semester AY: 2017-2018)

Session/Teaching Plan+Execution

Name of Faculty: Prof. S. V. Joshi — Year: I Sem: II

Subject Name:OBJECT ORIENTED PROGRAMMING — Subject Code: 2MCA2

Sr.No	Unit No.	Topics to be Covered	Month	Week	Execution Date
1	UNIT NO-I	Introduction, Software development,	January	II	
2		Software requirement specifications,			
3		Algorithms,VB Net project			
4		Designing objects, life-cycle approach			
5		classes & applications,		III	
6		Relationships			
7		object Class design examples			
8		class code in VB Net			
9	UNIT NO-II	VB Net language, CLR, variables, expressions, statements,		IV	
10		blocks, structured variables & enumerations. Classes, object			
11		orientation & variables,			
12		control structures		V	
13		selection structures, repetitions			
15		parameters, errors			
16		exception handling, scope			
17	UNIT NO-III	Data & object structures,	February	I	
18		arrays as a object			
19		organizing the data,			
20		data structures, collections,		II	
21		inheritance in VB,			
22		code inheritance, interface inheritance,			
23		inheriting the data structures,			
24		Visual inheritance, polymorphism.			
25	UNIT NO-IV	Winform applications : Structure of application, Winform		III	
26		basics, user interface code & the form designer, tools for			
27		creating a user interface			
28		dialog boxes & the other user		IV	
29		interface options			
30		other form styles, control collection			
31		delegates			
32		and event handlers		V	
33		Sub & Funtion			
34		visual inheritance.			

35	UNIT NO-V	Windows controls, accessing controls,	March	I	
36		Simple input controls, list controls,			
37		at runtime. Graphics in Winform programs			
38		object modeling, manipulating the controls		II	
39		application structure,			
40		real worlds object modeling with object			
41		relationships			
42		software patterns			
43	UNIT NO-VI	Storing application data, computer files, Windows registry,		III	
44		file storage, structured data,			
45		Basic. Net Object oriented database systems, Net support			
46		for relational database systems,		IV	
47		System, reading & writing data.			
48		Data access in a three tiered			

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd/Even Semester AY: 2017-2018)
Session/Teaching Plan+Execution

Name of Faculty: Prof. D. S. Deshmukh — Year: I Sem: II
Subject Name: System Analysis And Design — Subject Code: 2MCA3

Sr.No	Unit No.	Topics to be Covered	Month	Week	Remark
1	UNIT NO-I	Introduction : System Analysis & Design	January	II	
2		System Analysis & Design concepts			
3		Role of system analyst			
4		Review of System DLC			
5		Organization as systems			
6		Levels of management			
7		Project fundamentals. Feasibility study			
8		Activity planning & control. Managing analysis & design activities.			
9	UNIT NO-II	Managing analysis & design activities		III	
10		Sampling and investigating hard data			
11		Interviewing			
12		reporting			
13		Joint application design		IV	
14		Questionnaires			
15		questionnaire			
16		questionnaire		V	
17	UNIT NO-III	and office environment	February	I	
18		Prototyping- User reactions			
19		Approaches to prototyping & developing prototype			
20		Data flow Diagram		II	
21		Data flow aproach to requirements			
22		Developing DFD's			
23		Logical & Physical DFDs			
24		Examples of DFDs			
25	UNIT NO-IV	Data dictionary concept		III	
26		Data repository, Creating & using data dictionary			
27		Overview of process specifications			
28		Structured English		IV	
29		Decision tables/trees			
30		Decision support system & decision making concepts relevant to DSS			
31		Semi structured decisions			
32		Multiple-criteria decision-making		V	

33	UNIT NO-V	System Proposal	March	I	
34		Ascertaining hardware/software needs			
35		Identifying & forecasting cost/benefit			
36		comparing cost/ benefit		II	
37		systems proposals			
38		Writing systems proposals			
39		Presenting systems proposals			
40		Principles of Delivery		III	
41	UNIT NO-VI	Output Design Objectives			
42		Designing printed output, Screen output			
43		Input Design objectives		IV	
44		Form Design			
45		Screen Design for input			
46		Introduction to OOSAD			
47		Object-Oriented Analysis		V	

Prof. Ram Meghe Institute of Technology & Research Badnera

P. G. Department of Computer Applications

(Odd/Even Semester AY: 2017-2018)

Session/Teaching Plan+Execution

Name of Faculty: Prof. V. A. Sinha — Year: I Sem: II

Subject Name:Data Coomunication — Subject Code: 2MCA2

Sr.No	Unit No.	Topics to be Covered	Month	Week	Execution Date
1	I	Data communication concepts	JANUARY	III	
2		Uses and applications.			
3		Telephone: Voice communication networks			
4		Switches, PBX cellular technologies			
5		Fax. IVR, Voice Mail		IV	
6	II	Hardware; network architecture			
7		Hardware; network architecture			
8		Hosts, Clients, Circuits, Special purpose Communication Devices			
9		Special purpose Communication Devices ...		V	
10		FEP, Multiplexers,			
11		Protocol Converters	February	I	
12		Line adapters			
13	III	Data transmission: Coding,		II	
14		Transmission modes			
15		Band width, Modulation			
16		Modem: Types and Standards,			
17		PAM & PCM techniques		III	
18		Connector cables			
19	IV	OSI model, MAC protocol			
20		controlled & contention-based			
21		Error control in networks		IV	
22		Data link Protocols: asynchronous & synchronous			
23		Transmission efficiency			
24		Carrier Sense Multiple Access / CD			
25		Point-to -Point Protocol details.		V	
26	V	Network Layer: Topologies	March	I	
27		Network Types			
28		Network routing, Network Standards			
29		Network protocols		II	
30		Network routing			
31		TCP/IP, IPX/SPX, X.25			
32		X.25 ,GOSIP protocols			
33		network protocols		III	
34		LANs: uses and types.			
35	VI	Network Management: Basic principles			
36		infrastructure for network management			
37		LAN components		IV	
38		Ethernet: topology,			
39		MAC, types			
40		Token rings: topology			
41		MAC, types, other types of LANs		V	
42		MAP (IEEE 802.4).			
43		Arc Net, Apple Talk			
44		LAN performance improvement,			
45		Selecting a LAN	April	II	
46		Network Securities			
47		Network Standards , Policies			
48		Network Setup and configurations			

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd/Even Semester AY: Summer2018)
Session/Teaching Plan+Execution

Name of Faculty: Prof. S. A. Ghogare — Year: I Sem: II
Subject Name:Business System — Subject Code: 2MCA4

Sr.No	Unit No	Topics to be Covered	Month	Week	Execution Date
1	UNIT NO-I	Introduction : Nature of business	January	II	
2		Objectives			
3		Components of business			
4		Environment of business system,			
5		business system and its sub-systems		III	
6		forms of legal ownership : soe proprietership, partnership organisation			
7		company form of organisation			
8		forms of legal ownership : soe proprietership, ,			
9		partnership organisation		IV	
10		company form of organisation			
11		Social responsibilities of business			
12	UNIT NO-II	Company Management			
13		Structure of company management		V	
14		patterns and problems of company management			
15		company meetings & resolutions			
16		company office			
17		its organization and management		I	
18		Business combinations			
19		Government & business			
20	UNIT NO-III	Production functions :		II	
21		Plant location			
22		factory planning,			

23	UNIT I	production control and cost control	February	III	
24		Budgets and budgetary control			
25		purchasing and storekeeping			
26	UNIT NO-IV	Personnel functions			
27		Personnel management			
28		role of personnel manager			
29		job evaluation		IV	
30		merit rating.			
31		Industrial relations			
32		Trade Unionism			
33		employee remunerations		V	
34		wage payments	March	I	
35		incentives & wage policies			
36	UNIT NO-V	Financial functions		II	
37		Financial planning			
38		various sources of finance			
39		institutions of industrial finance			
40		Securities market.		III	
41					
42	UNIT NO-VI	Marketing functions			
43		Marketing & its function			
44		transport			
45		selling or distributions of goods		IV	
46		channels of distribution			
47		salesmanship			
48		advertising and promotion		V	
49		salesmanship,advertising and promotion			

Prof. Ram Meghe Institute of Technology and Research, Badnera

Department of Master in Computer Application

Practical Execution Plan

Subject : 2MCA1 DATA STRUCTURES & ALGORITHMS

Session: Summer 2018

Sr. No.	Name of Practical	Date		Sign of Faculty	Sign of HOD
		Batch B1	Batch B2		
1	Write a program in C++ for inserting and deleting element from array.	17/01/2018	17/01/2018	NB	
2	Write a program in C++ for bubble sort.	22/01/2018	22/01/2018	NB	
3	Write a program in C++ for Linear Search and Binary Search.	30/01/2018	31/01/2018	NB	
4	Write a program in C++ to check whether the C++ compiler stores 2 dimensional array elements in Row Major or Column major format.	6/02/2018		NB	
5	Write a program in C++ to implement the first pattern matching Algorithm.	21/02/2018	20/02/2018	NB	
6	Write a program in C++ for implementing a linked list using pointers.	26/02/2018 07/03/2018	26/02/2018 27/02/2018	NB	
7	Write a program in C++ for implementing a stack using array.		13/3/2018	NB	
8	Write a program in C++ for evaluation of a postfix exp.				
9	Write a recursive program in C++ a. to generate nth number of fibinacci series b. to find the factorial of a number.	04/04/18	03/04/18	NB	
10	Write a recursive program in C++ for solving the Tower of Hanoi Problem.	04/04/18	03/04/18	NB	
11	Write a program in C++ for implementing a queue using array	11/04/18 16/04/18	10/04/18 11/04/18 16/04/18	NB	
12	Write a program for preorder traversal using pointers, linked list and recursion.				

NB Bobade

In-Charge Faculty
Prof. N. D. Bobade

Prof. Ram Meghe Institute of Technology & Research, Badnera

P.G. Department of Computer Applications

Subject: Object Oriented Programming Lab (2 MCA 7)

Proposed Practical List

S.N.	Title	B1	B2
01	Write a program for display Account Balance by using with structure using class & object.	16/01/2018	15/01/2018
02	Write a program for display student information using constructor in a class.	23/01/2018	22/02/2018
03	Write a program for add, remove item from queue using console application.	30/01/2018	29/01/2018
04	Write a program for using different types of exception handling in console application.	06/02/2018	05/02/2018
05	Write a program for inheritance to show reusability of code from base class to derived class.	13/02/2018	12/02/2018
06	Write a program for creating interface of arithmetic operation by using Sub & Function in console application.	20/02/2018	19/02/2018
07	Write a program for creating abstract class calculate by using MustInherit Keyword.	27/02/2018	26/02/2018
08	Write a program for add shopping items into arraylist by using capacity, sort & count property in console application.	06/03/2018	05/03/2018
09	Write a program to create winform application using visual inheritance & configure their properties & add code to new winfrom application.	13/03/2018	12/03/2018
10	Write a program to print rectangle & ellipse using graphics class in winfrom application.	20/03/2018	19/03/2018
11	Write a program for simple calculator using winform application.	27/03/2018	26/03/2018
12	Write a program show the use of check box & option button to select multiple options.	03/04/2018	02/04/2018
13	Write a program to copy data from TextBox to TextFile & copy data from TextFile to TextBox using file handling.	10/04/2018	09/04/2018
14	Write a program to calculate net salary of an employee using winform application.	17/04/2018	16/04/2018
15	Write a program for database application (ADO.Net) (Create database application on visual basic of an employee.)	24/04/2018	23/04/2018

Practical Incharge
Prof.S.V.Joshi

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G Department of Computer Applications(MCA)
(Odd/Even Semester AY: 2016-2017)
Session/Teaching Plan

Name of Faculty: Prof.S.A.Ghogare **Year:W-2017** **Section: A/B/DSE**
Subject Name: Computer Organization **Sem: I** **Subject Code:**

Sr. No	Unit No:	Topics to be Covered	Month	Week	Day
1	Unit-I	**General Introduction of the subject ,syllabus ,importance etc**	August	Week 2	1
2		Evaluation of Computers and			2
3		computer generations			3
4		Technological trends			4
5		Measuring performance			5
6		speed up		Week3	1
7		Amdahl's law			2
8		Von Neumann machine architecture			3
9		Functional units and		Week4	1
10		components in computer organization			2
11		Program development tools			3
12		Operating systems.			4
13	Unit II	From Electron to Bits			5
14		Binary representation of positive integers, Negative integers		Week5	1
15		Binary representation of Negative integers			2
16		Fixed point arithmetic operations on positive and signed (Negative) integers and operations			3

17		Floating-Point numbers	September	Week1	1
18		BCD arithmetic operation			2
19		Design of ALU			3
20		Bit slice processors.		Week 2	1
21	Unit-III	Concept of instruction formats and instruction set			2
22		Instruction set types, types of operands and operations			3
23		Generation of memory addresses and addressing modes			4
24		Subroutine nesting using stacks to implement subroutine calls and calling conventions		Week 3	1
25		Processor organizations, Register organization,			2
26		Stack based organizations,			3
27		Encoding of machine instructions,			4
28		General features of RISC and CISC instruction sets		Week 4	1
29		modern processors convergence of RISC with CISC			2
30		Processor micro architecture-I Fundamental concepts for data path implementation			3
31		micro programmed execution,			4
32	Unit-IV	Recent innovations in execution unit design.			5
33		Revision/test*		Week 5	1
34					2
35		example of pipelined CISC and RISC processor ,			3
36		VLIW			4
37		ProcessorsVectorprocessors,Multithreadedprocessors			5

38		Compilation techniques support to instruction level parallelism,		Week 1	
39		Extracting parallelism.			1
40	Unit-V	Basic concepts, memory hierarchy			2
41		Internal organization of semiconductor main memory chips		Week 2	3
42		RAM and ROM, semiconductor main memories -			4
43		RAM, semiconductor Read - Only memories - ROMs, speed, size and cost			5
44		Secondary storage magnetic ferrite core memories,			1
45		optical disks CD-ROM memories			2
46		Features describing a cache, cache implementations, multilevel caches.	October	Week 4	3
47		Virtual memory organization			4
48		functions for translating the program pages in virtual to physical addresses space			5
49		partitioning, segmentation, page address, Demand paging			1
		swapping, cache, and virtual swapping,			2
50	Unit-VI	Virtual memory , inverted page tables concept,			3
51		protection between programs, running on the same system,		Week 5	4
52		Instruction pipeline,			5
53		instruction pipeline hazards			6
54		overcoming hazards using a pipeline with forwarding paths			1
55		instruction set design influence on pipelining	November	Week 1	2
56		accessing I/O devices			3
57		programmed I/O,			4

Prof.Ram Meghe Institute of Technology & Research,Badnera

P.G.Department of Computer Application

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Ms.Snehalata D. Ulhe **Year: MCA-I** **Section: A/B/DSE**

Subject Name:Problem Solving using C++ **Sem: I** **Subject Code:** 1MCA2

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction, Object & Classes	August	Week2	1
2		Declaring and using Classes Constructor			2
3		Declaring and using Classes Constructor		Week3	1
4		Object as functions argument			2
5		Copy Constructor			3
6		Static Class data		Week4	1
7		Arrays of Object			2
8		C++ String Class			3
9		C++ String Class		Week5	1
10	Unit II	Overloading Operators			2
11		Overloading Unary and Binary Operators	September	Week1	1
12		Overloading Unary and Binary Operators		Week2	1
13		Data Conversion			2
14		Pitfalls of Operator Overloading			3
15		New & Delete Operators			4
16		Pointers for Object		Week3	1
17		Pointers for Object			2
18	Unit III	Inheritance in C++			3
19		Inheritance in C++			4
20		Inheritance in C++			5
21		Inheritance in C++		Week4	1
22		Function Overloading			2
23		Function Overloading			3
24		Containership			4
25		Containership		Week5	1
26		Containership			2
27	Unit IV	Virtual Functions			3
28		Abstract classes			4
29		Abstract classes	October	Week1	1
30		Virtual Base Class & friend Function			2
31		Virtual Base Class & friend Function			3
32		Static Function			4
33		This Pointer			5

34	I	Assignment & Copy initialization	Oct	Week2	1
35		Dynamic Type Information			2
36		Dynamic Type Information			3
37	Unit V	Stream Classes,Stream Error			4
38		Stream Classes,Stream Error		Week4	1
39		Disk file I/O with Stream, File Pointer			2
40		Error Handling in FILE I/O			3
41		File I/O with Member Function			4
42		Overloading extraction & insertion operations			5
43		Memory as Stream object		Week5	1
44		Command Line argument, Multifile Program	NOV.	Week1	1
45	Unit VI	Function Template, Class Template			2
46		Exceptions			3
47		STL,Algorithm			4
48		Sequential Containers,Iterates		Week2	1
49		Function Object			2

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G. Department of Computer Applications (MCA)

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Prof. D. R. Bandbuche — **Year:** MCA I[st] Year Sem I

Subject Name: Computer Oriented Statistical Methods(Theory) — **Subject Code:** [illegible]

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction, Definitions : Websters, seer's & Croxton and Cowden definitions of statistics	Augest	Week 2	1
2		Importance of statistics, Limitations of statistics			3
3		Scope of statistics : Industry, Economy, Planning,			4
4		medical science, Computer Science etc			4
5		classification of data			5
6		Frequency distribution, cumulative frequency distribution			1
7		Graphical representation of frequency distribution			2
8		Diagrammatic representation : Simple bar, subdivided bar, pie diagram		Week 3	3
9	Unit II	Concept of central tendency, criteria for good measures of central tendency.			4
10		Arithmetic mean for grouped and ungrouped date, properties of A.M.			5
11		G.M., H.M. for grouped & ungrouped data with its merits & demerit		Week 4	1
12		Partition values : quartiles, deciles, percentiles. Numerical problems on central tendency			2
13		Dispersion criteria for good measures of dispersion.			3
14		Variance, co-efficient of Dispersion.		Week 5	1
15		coefficient of variation		Week 1	1
16		Concept of central tendency, criteria for good measures of central tendency			1
17	Unit III	Definition of Skewness	September	Week [illegible]	[illegible]
18		Raw & Central moments ; for grouped & ungrouped data			1
19		First four moments			2
20		their relation-ships Raw & Central moments			3
21		Pearson's co-efficient of Skewness		Week 2	1
22		Bowley's co-efficient of Skewness			2
23		Numerical problems on moments, co-efficient of skewness & co-efficient of Kurtosis.		Week 3	3
24		co-efficient of kurtosis based on moments			4
25		types of kurtic curves			5
26	Unit IV	Correlation, Concept of correlation.		Week 4	1
27		correlation for bivariate data.			2
28		scatter diagram positive, negative & no correlation			3
29		Karl pearson's co-efficient of correlation			4
30		limit- Karl pearson's co-efficient			5
31		limits at 1 and interpretation of r		Week 5	1
32		Spearman's Rank correlation			[illegible]
33		Repeated ranks correlation		Week [illegible]	[illegible]
34		Assuming normal bivariate pearson's			[illegible]
35	Unit V	Concept of regression	October		[illegible]
36		linear regression		Week [illegible]	[illegible]
37		Derivation of regression lines by method of least squares			[illegible]
38		Linear and Non-linear regression			[illegible]
39		Fitting of second degree curve & curve of [illegible]			[illegible]
40		Multiple correlation and its Numerical problems			[illegible]
41		partial correlation and its Numerical problems		[illegible]	[illegible]
42		Equation of Non-linear regression			[illegible]
43		Numerical problems on non-linear regression		Week [illegible]	[illegible]
44	Unit VI	Time series Definition	Novembe		[illegible]
45		Time series & uses of time series		Week [illegible]	[illegible]
46		Components of Time series.			[illegible]
47		Additive & multiplicative models			[illegible]
48		Method of estimating trend			[illegible]
49		Cyclic [illegible]			[illegible]
50		[illegible] Series Method			[illegible]
51		Least Square method			[illegible]

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Mr. D. S. Deshmukh **Year: MCA-I** **Section:**
Subject Name: Principles of Management **Sem: I** **Subject Code: 1MCA4**

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction, Definition and concepts of management	August	Week2	1
2		Importance of management			2
3		Various management functions & control			3
4		Management control & responsibilities			4
5		Human resources planning		Week3	1
6		Decision-making			2
7		Trade unions & collective bargaining		Week4	1
8	Unit II	Organization planning			2
9		Organization design and development			3
10		Organization development			4
11		Production resources		Week5	1
12		Production planning			2
13		Types of production system			3
14		Production systems, Production control.	September	Week1	1
15	Unit III	Product design & development		Week2	1
16		Introduction			2
17		Design of the product			3
18		New product development		Week3	1
19		Product development schemes			2
20		Material planning			3
21		Material control		Week4	1
22		Inventory control technique			2
23		MIS meaning and objectives			3
24		Types of data, methods of data collection			4

25		Maintenance and system reliability			
26		Concepts of Maintenance		Week2	1
27		Objectives of maintenance			2
28		Failure analysis			3
29		Reliability Maintenance system & Classification			4
30		Maintenance planning		Week2	1
31		TQM ISO 9000 & Quality audit			2
32	Unit V	Marketing management		Week3	1
33		Introduction to Marketing			2
34		Marketing planning		Week4	1
35		Consumer behaviour			2
36		Product management			3
37		Pricing & promotion decision			4
38		Financial planning, Source of finance		Week5	1
39	Unit VI	Project Management: Concepts and importance of project			2
40		Project implementation			3
41		Types of data, methods of data collection	NOV.	Week1	4
42		Analysis and presentation of data			1
43		Reporting and presentation of data, Decision options			2
					3

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Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

Odd Semester AY:2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof. S. V. Joshi / Prof. D.R. Bandbuche

Subject Name: Computer Oriented Statistical Methods **Subject Code: 1MCA8**

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	Write a program to find arithmetic mean for simple series.	B1	10-8-17		
		~~B2~~			
		~~B3~~			
2	Write a program to find arithmetic mean for discrete series.	~~B1~~	24-8-17		
		~~B2~~			
		~~B3~~			
3	Write a program to find arithmetic mean for Continuous series.	~~B1~~	6-9-17		
		~~B2~~	13-9-17		
		~~B3~~			
4	Write a program to find median for given series.	B1	20-9-17		
		~~B2~~			
		~~B3~~			
5	Write a program to find mode for simple series	B1	4-9-17		
		~~B2~~			
		~~B3~~			
6	Write a program to find mode for discrete series.	B1	20-9-17		
		~~B2~~	27-9-17		
		~~B3~~			
7	Write a program to find mode for continuous series.	B1	4-10-17		
		~~B2~~	11-10-17		
		~~B3~~			
8	Write a program to find quartile for discrete series.	B1	25-10-17		
		~~B2~~			
		~~B3~~			
9	Write a program to find range and co-efficient of range for discrete series and continuous series.	B1	1-11-17		
		~~B2~~			
		~~B3~~			
10	Write a program to find mean deviation for discrete series and continuous series.	B1			
		~~B2~~			
		~~B3~~			

In-Charge Faculty

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

Odd Semester AY 2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof.S.A.Ghogare **Subject Code:1MCA9/1CS9**

Subject Name:COMPUTER LABORATORY-I

Sr. No	Name of Practical	Batch	Date	Sign of Faculty
1	To study and implement Data Definition language Statatements	B1	9/8/2017, 21/8/17	Ghogare
		B2	9/8/2017, 11/8/17	
		B3	9/8/2017, 11/8/17	
2	To study and implement Data Manipulation Statatements.	B1	14/8/17	Ghogare
		B2	14/8/17	Ghogare
		B3	14/8/17	Ghoga
3	Study of SELECT command with different clauses.	B1	07/9/17	Ghogare
		B2	07/9/17, 21/9/17	
		B3	07/9/17	
4	Study of GROUP functions (avg. count. max. min. Sum).	B1	20/9/17	Ghogare
		B2		
		B3	26/9/17	
5	To study the Various Types of Key in DBMS	B1	28/9/17	Ghogare
		B2	03/9/17	
		B3		
6	Design queries for implementing all clauses(GROUPBY.HAVING.ORDERBY.BETWEEN).	B1	05/10/17	Ghoga
		B2		
		B3		
7	Study of various type of SET OPERATORS (Union. Intersect. Minus).	B1	25/10/17	Ghoga
		B2		
		B3		
8	Study of Various types of JOINS	B1	2/11/2017	Ghogare
		B2		
		B3		
9	Design queries for creating Views.	B1		
		B2		
		B3		

Ghogare

In Charge Faculty

Prof.S.A.Ghogare

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Applications
(Odd/Even Semester AY 2017-2018)
Session Teaching Plan

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

Year: MCA II Section: A/B/DSE
Sem: I Subject Code - 3 MCA 1

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject , Operating System Definition	July	Week2	1
2		OS Evolution , Operating System Services.			2
3		OS Components			3
4		Process Concept ,Process Scheduling			4
5		Operations on Processes, Cooperating Processes.		Week3	1
6		Inter process Communication			2
7		Threads Overview, Threading Issue , Java Threads			
8		Multithreading Models			
9	Unit II	CPU Scheduling Concepts.			
10		Scheduling Criteria and Algorithms			1
11		The Critical-Section Problem.		Week4	1
12		Synchronization Hardware			2
13		Semaphores, Monitors.			3
14		Deadlocks-Definition & Characterization			4
15		Deadlocks Prevention		Week5	1
16		Avoidance, Detection , Recovery from Deadlock			2
17	Unit III	Introduction of Memory Management			
18		Swapping.			
19		Contiguous Memory Allocation Schemes.		Week6	1
20		Paging Process, need of Segmentation	August	Week1	1
21		Background, Demand Paging scheme.			2
22		Process Creation,			3
23		Page Replacement Policies.		Week2	1
24		Allocation of Frames , Thrashing			2
25	Unit IV	Introduction to File System			3
26		File-System Mounting.			4
27		File Sharing		Week3	1
28		File-System Structure			2
29		File System Implementation.		Week4	1
30		Introduction to Directory Structure linux			2
31		File system Protection			3
32		Directory Allocation Methods			4
33		Directory Implementation		Week5	1
34		File Directory Security issues			2
35		Free-Space Management ,File Recovery	September	Week1	1
36	Unit V	I/O Systems: Overview , I/O Hardware		Week2	1
37		Kernel I/O Subsystem.			2
38		Application I/O Interface			3
39		Kernel I/O Subsystem			4
40		Transforming I/O to Hardware Operations.		Week3	1
41		Disk Scheduling			2
42		Disk Management			3
43		Swap-Space Management			4
44		RAID Structure		Week4	1
45	Unit VI	History, Design Principles			2
46		Kernel Modules.			3
47		Process Management.			4
48		Scheduling, Memory Management		Week5	1
49		File Systems, Input and Output			2
50		Interprocess Communication			3
51		Network Structure In Linux os			4
52		Application of Linux OS	October	Week1	1
53		Security issues in Linux.			2
54		Revision on topics			3
					4

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Applications
(Odd Semester AY: 2017-2018)
Session/Teaching Plan (Theory)

Name of Faculty: Preeti Deshmukh
Subject Name : File Structures & Data Processing
Subject Code : 3MCA2

Class: MCA-II
Sem: I

Sr. No	Unit No.	Topics to be Covered	Month	Week	Lecture
1	UNIT I	General Introduction to the subject	July	I	1
2		File Structure design, File processing operations			2
3		Read, Write and Seek operations,Unix Directory structure			3
4		Secondary storage devices: disks(HDD, Floppy)			4
5		Secondary storage devices: tapes		II	1
6		Secondary storage devices: CD-ROM			2
7		a journey of a byte, Buffer management.			3
8		move, locate,scatter,gather operations, I/O in Unix			4
9	UNIT II	File Structure Concepts : Field & record organization		III	1
10		record structures & its methods, record structures with length indicator			2
11		writing, representing, reading, variable length records			3
12		classes fixed length buffer			4
13		fixed text buffers and record access		IV	1
14		Using classes to manipulate buffers			2
15		Sequential record access & Unix tools			3
16		Record structures.			4
17		File access & file organization		I	1
18		Abstract data models for file access			2
19		Metadata. Extensibility			3

20		Portability & standardization			4
21		Sequential record access & Unix tools		II	1
22		Data Compression			2
23		compact Notation suppressing repeating sequences	August		3
24		Variable length codes			4
25		Irreversible Technique		IV	1
26		compression in Unix			2
27	UNIT III	Reclaiming spaces in files			3
28		Deletening fixed length records for reclaiming space dynamically		V	1
29		external memory fragmentation & placement strategies			2
30		Introduction to internal sorting and Binary searching			3
31		Key sorting		I	1
32		Indexing concepts, Multiple keys indexing		II	1
33		Object I/O, Inverted lists			2
34		Selective indexes, Binding			3
35		Cosequential processing : Object-Oriented model			4
36		Object-Oriented model: its application & match lists		III	1
37		Internal sorting : a second look			2
38		Merging lists, summary of conseqential match, applications of conseqential match	September		3
39	UNIT IV	File Merging : Sorting of large files on disks		IV	1
40		File Merge & heapsort			2
41		sorting while writing, merging as a way of sorting large files			3
42		Balanced Merge, Two Way			4
43		K-way merge		V	1
44		Sortmerge packages			2
45		sorting and Cosequential processing in Unix			3

46	UNIT V	Multilevel indexing	October	I	4
47		Multilevel indexing with B-trees			1
48		Indexing using Binary Search trees			2
49		Linked Structure			3
50		OOP based B-trees			4
51		AVL trees		II	1
52		Paged Binary trees, & Problems			2
53		B-tree methods Search			3
54		Insert and others, Deletion			4
55		Deletion, merging & redistribution		IV	1
56		B*trees, Virtual B-trees, VL records & keys			2
57		Indexed sequential file access and Prefix B+trees			3
58	UNIT VI	Hashing : Introduction, a simple hashing algorithm			4
59		Hashing functions and record distributions		V	1
60		Collision resolution, Buckets, External hashing.	November	I	1
61		Making deletions, Pattern of record access			2
62		Implementation, Deletion, Performance, Alternative approaches.			3

Incharge Faculty
Preeti P. Deshmukh

P. G. Department of Computer Applications

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Rupali Sherekar **Year: II**

Subject Name: Java Programming **Sem: I** **Subject Code: 3MCA3**

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction to the subject	July	1	1
2		Java Basics, Prog Components			2
3		Compilation cycle,Data Types, Operators,Intro to Arrays			3
4		Operators,Intro to Arrays			4
5		Control Statements			5
6		Switch Case Example		2	1
7		Looping Constructs,Logical Example			2
8		Logical Examples			3
9		break, continue, Javadoc, Javac, Jdb			4
10		University paper questions			5
11	Unit II	Introducing classes, class fundamentals, declaring		3	1
12		constructor, this keyword,			2
13		access control,			3
14		Packages			4
15		Creating and importing			5
16		Creating and importing		4	1
17		Inheritance			2
18		Inheritance			3
19		Polymorphism (Overriding)			4
20		Dynamic Method Dispatch			5
21		Abstract classes	August	1	1
22		abstract classes			2
23		Interfaces			3
24		Interfaces			4
25		Passing array to methods.			5
26		String and String Buffer classes,		2	1
27		String and String Buffer classes,			2
28		Math class			3
29		Arrays: Multi-dimensional, Array of Objects			4
30	Unit III	Exception handling: Introduction, Exception types, uncaught			5
31		throw, throws, finally clauses		3	1
32		multiple catch clauses, Built-in Exceptions			2
33		Creating your own exceptions			3
34		Creating your own exceptions			4
35		Multithreaded programming: Java thread model, creating a			1
36		creating a thread,			2
37		Examples			3

Prof. Ram Meghe Institute of Technology & Research, Badnera
P.G. Department of Computer Applications
(Odd Semester AY: 2017-18)

Session/Teaching Plan

Name of Faculty: Prof. S.V. Joshi **Year:** SY MCA

Subject Name: Computer Networks **Sem:** I **Subject Code:** 3MCA4

S. N	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction: Brief history of computer networks & Internet	July 2017	Week1	1
2		Layered architecture			2
3		Internet protocol stack			3
4		Network entities & layers			4
5		Principles of Protocols		Week2	1
6		Application Layer			2
7		HTTP			3
8		FTP			4
9		SMTP		Week3	1
10		DNS protocols			2
11	Unit II	Transport layer: services & principles			3
12		multiplexing &			4
13		demultiplexing applications		Week4	1
14		UDP			2
15		principles of reliable data transfer			3
16		TCP details			4
17		Principles of Congestion Control		Week5	1
18		TCP congestion control	August 2017	Week1	1
19	UNIT III	Network layer: network service model			2
20		routing principles			3
21		hierarchical routing		Week2	1
22		Internet Protocol (IP)			2
23		ICMP details			3

S. N		Topics to be Covered		Week	Day
24		Routing in the Internet		Week2	4
25		IPV6	August 2017	Week 3	1
26	UNIT IV	Link layer: Introduction			2
27		Services of link layer			3
28		LAN addresses			4
29		Address Resolution Protocol		Week 4	1
30		Carrier Sense Multiple Access / CD			2
31		Token Passing Protocol			3
32		Go-Back N Protocol			4
33		Selective Repeat		Week 5	1
34		Point-to -Point Protocol details			2
35	UNIT V	Network security issues			3
36		principles of cryptography			4
37		authentication & authentication protocol	September 2017	Week 2	1
38		version of protocols, key distribution & certification			2
39		integrity: digital signatures			3
40		message digests, secure e- mail			4
41	Unit VI	Network Management: Basic principles		Week 3	1
42		infrastructure for network management			2
43		The Internet Network management framework: SMI			3
44		MIB			4
45		SNMP details		Week 4	1
46		security and administration			2
47		ASN 1			3
48		Firewalls: Packet filtering and Application gateway			4

7 7

Alignment with plan?

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G.Department of Computer Applications

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Prof. Nililma D. Bobade **Year: SYMCA** **Section: A/B/DSE**

Subject Name: Computer Oriented Optimization Techniques **Sem: I** **Subject Code:3MCA5**

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit IV	Introduction to sequencing problem	JULY	Week2	1
2		N job Two machine problem			2
3		Cases of Tie			3
4		Practice Problems on N job Two machine problem			4
5		N job three machine sequencing problem,			5
6		Practice Problems on N job Three machine Problem		Week3	1
7	Unit III	Introduction to transportation problem and Mathematical			2
8		North West Corner Rule Method			3
9		Practice problems On North West Corner Rule			4
10		Least Cost Method			5
11		Practice problems On Least Cost Method		Week 4	1
12		Vogel Approximation method			2
13		Practice Problems on Vogel Approximation method			3
14		optimizing the basic feasible solution using U-V method			4
15		UV Method Practice Problem			5
16		Degeneracy in UV Method		Week5	1
17		Prohibited and Maximization Transportation Problem.			3
18		Alternative optimal solution			4
19		Assignment Problem: Introduction, zero one			5
20		Hungerian Method	August	Week1	1
21		Practice on Hungerian Method			2
22		Unbalanced assignment problems,Restricted assignment			3
23	Unit II	Linear Programming: Introduction, concept of LP model,			4
24		development of LP model		Week2	1
25		Conversion of general LPP into standard LPP			2
26		Graphical method to solve LPP.			3
27		Practice on Graphical Method			4
28		Simplex method		Week3	1
29		Practice on Simplex method			2
30		Practice on Simplex method			3
31		Big M method,		Week4	1
32		Practice on Big M method			2
33		Two phase method.			3
34		Two phase method problems			4
35		Types of linear programming solution infeasible solution			5

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Applications
(Odd Semester AY: 2017-2018)
Session/Teaching Execution of the Plan (Practical)

Name of Faculty: Preeti Deshmukh
Subject Name : File Structures & Data Processing-Lab **Class: MCA-II**
Subject Code: 3MCA6 **Sem: I**

Sr.No	Name of Practical	Batch	Date	Faculty Sign	HOD Sign
1	Write a program to open, read, write and close a text file.	B1	04/07	Prut	
		B2	03/07	Prut	
		B3	07/07	Prut	
2	Write a program to count number of characters, words, lines, sentences in a file	B1	11/07	Prut	
		B2	10/07	Prut	
		B3	14/07	Prut	
3	A. Write a function to count the number of blank present in a text file B. Write a function in C++ to print the count of word the as an independent word in a text file.	B1	18/07	Prut	
		B2	17/07 21/07 24/7	Prut	
		B3	21/07, 24/7.	Prut	
4	Write a program to copy content of one file into another file and convert the lower case characters to upper case characters.	B1	01/08/17	Prut	
		B2	31/07	Prut	
		B3	28/07, 04/07	Prut	
5	Write a program to insert and find a record within a file using object.	B1	08/08, 22/08	Prut	
		B2	21/08, 28/08	Prut	
		B3	11/08, 18/08	Prut	
6	Write a program to modify a record within a file.	B1	25/09, 03/10, 10/10.	Prut	
		B2	25/09, 05/10	Prut	
		B3	05/10, 6/10.	Prut	
7	Write a program to delete a record within a file using array of objects.	B1	18/10	Prut	
		B2	18/10	Prut	
		B3	13/10	Prut	
8	C++ program to write and read time in/from binary file using fstream.	B1	30/10	Prut	
		B2	27/10	Prut	
		B3	27/10	Prut	

9	Write a program to display a deleted record and undelete the deleted record.	B1	30/10	Prof..	
		B2	30/10	Prof..	
		B3	30/10	Prof..	
10	Write a program to perform indexing operation on given file containing records; index of record has to be stored in another file	B1	6/11	Prof..	
		B2	6/11	Prof..	
		B3	8/11	Prof..	
11	Write a program in C++ to perform consequential match based process.	B1	7/11	Prof..	
		B2	6/11	Prof..	
		B3	3/11	Prof..	
12	Write a program to perform merging two files and store the result in another file.	B1	8/11	Prof..	
		B2	8/11	Prof..	
		B3	8/11	Prof..	
13	Write a program for key sorting.	B1	8/11	Prof..	
		B2	8/11	Prof..	
		B3	8/11	Prof..	

Preeti..

In-chagre Faculty

Prof. Preeti P. Deshmukh

P.G. department of Computer Applications
Practical Execution Plan for Java Programming Lab, MCA Year II Sem II
Winter 2017

Sr. No	Name of Program	Execution Date		
		B1	B2	B3
1	Write a Java application to print the given format 10101 0101 101 01 1	13/07	11/07	12/07
1.2	WAP that predicts your fortune based on your birthdate.	20/07	18/07	19/07
2	WAP that has a class with overloaded member functions(**add**). One add takes double arguments and the other takes int arguments. The **add** member function should **display all the arguments** it takes and also **display their sum**. Run the program by providing different number of arguments (Use varargs)	27/07	25/07	26/07
3	Create an abstract class Figure3d with a data member dim1 and an abstract function vol(). Create 2 classes sphere and cone and that inherit Figure3d. These classes should implement the vol() function. Add this program to a package. Execute it from within and outside the package. .(Hint: Volume of sphere=4/3*pi*r*r*r, volume of cylinder=pi*r*r*h, volume of cone=1/3*pi*r*r*h).	03/08	01/08	02/08
4	Write an application in Java which reads a string from user as a command line argument and checks the string for vowels, and when the vowel is encountered it appends the word "egg" before each vowel	10/08	08/08	09/08
5	WAP in java that creates an interface figure2d with two data members dim1 and dim2 and member function area().Write two classes named "rectangle" and "triangle" that implement the above interface and display area of the figure.	24/08	22/08	23/08
6	Write a program in java that generates two random numbers and divides them.Anticipate the kind of exception that will be generated and catch it.	07/09	05/09	06/09
7	WAP in java that takes your birth date as input from the command line. Check if the date is valid. If not through an exception. If yes, check if it is less than **today's date.** If not generate an exception created by you, with a message that **birthdate should be less than todays date.** If proper date is entered display age. Make use of Nested try catch. Re run the program using multiple catch for a single try	21/09	19/09	20/09
8	WAP in java that creates two threads , sets their priorities(high and low) and shows the number of cpu cycles alloted to each thread. Make use of join() method.	28/09	26/09	27/09
9	WAP in java to display the use of a.synchronized method b.synchronized block	05/10	03/10	04/10
10	WAP in Java to copy the contents of one file to another without using any looping statements. Read the names of the files from the command line.	12/10	10/10	11/10
11	WAP in Java that reads and displays its own contents.	26/10	24/10	25/10
12	WAP an applet in Java that shows the location of a mouse click, drag and also the key pressed.	02/11	31/10	01/11
13	WAP in java to create a simple frame with a smiley and two buttons , **happy** and **sad.** When the user clicks on happy, the smiley should smile. When user clicks on sad the smiley should become sad.			

Rupali Sherekar(JPL Practical Incharge)

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

Odd Semester AY 2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof.N.D.Bobade

Subject Name: Computer Oriented Optimization Techniques **Subject Code: 3MCA8**

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	Write a program in C++ to find total elapsed time for 2 Machine Problem and Idle time of Machine M1 and M2.	B1	7/11/2017 12/07, 2/08/17	NB NB NB	
		B2	11/07/2017 18/07/2017	NB	
		B3	3/07/2017 17/07/2017, 31/07	NB NB	
2	Write a program in C++ to find total elapsed time for 3 Machine Problem and Idle time of Machine M1 ,M2 and M3.	B1	9/08/2017	NB	
		B2	1/08/2017	NB	
		B3	31/07/2017	NB	
3	Write a Program in C++ to solve balanced transportation problem using NORTH WEST CORNER METHOD.	B1	16/08/17 23/02/17	NB NB	
		B2	5/09/17	NB	
		B3	14/02/2017, 4/09/17	NB	
4	Write a program in C++ to solve 2*2 game without saddle point.	B1	6/09/17	NB	
		B2	22/09/17	NB	
		B3	22/09/17	NB	
5	Write a program in C++ to check saddle pt in M*N game.	B1	20/09/17	NB	
		B2	3/10/17	NB	
		B3	7/10/2017	NB	
6	Write a program in C++ for PERT to find critical path and total duration of the project.	B1	27/09/17	NB	
		B2	30/10/17	NB	
		B3	30/10/2017	NB	
7	Write a program in C++ for CPM to find critical path and total duration of the project.	B1	4/10/2017	NB	
		B2	03/10/2017	NB	
		B3	1/11/2017	NB	
8	Write a program in C++ to find probability in tossing two coins simultaneously.	B1	Cancelled		
		B2			
		B3			
9	Write a program in C++ to find optimum decision for given loss table.	B1	11/10/2017	NB	
		B2	7/11/2017	NB	
		B3	6/11/2017	NB	
10	Write a program in C++ to find optimum decision for given Profit table.	B1	13/10/2017 (c)	NB	
		B2	31/10/2017	NB	
		B3	6/11/2017	NB	
11	Write a program in C++ to obtain regret table from profit table and Loss Table.	B1	13/10/2017 (c)	NB	
		B2	8/11/2017	NB	
		B3	9/11/2017	NB	

NB

In-Charge Faculty

Prof.N.D.Bobade

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G Department of Computer Applications

Odd Semester AY:2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof.V.A.Sinha

Subject Name: CLABIII **Subject Code: 3MCA9**

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	Write shell script for system call genrated by linux kernel.	B1	3/7/17		
		B2	4/7/17		
		B3	5/7/17		
2	Write shell script for creating a File & Directory with r-w-x permission and user management.	B1	17/7/17		
		B2	14/7/17		
		B3	12/7/17		
3	Write a Shell script for displaying network devices and IP address of system .	B1	24/7/17		
		B2	28/7/17		
		B3	2/8/17		
4	Write a shell script to display current process & threads.	B1	14/8/17		
		B2	9/8/17		
		B3	16/8/17		
5	Write a shell script for DNS of system .	B1	4/9/17		
		B2	18/8/17		
		B3	23/8/17		
6	Write a shell script for setting DHCP for system .	B1	11/9/17		
		B2	8/9/17		
		B3	27/9/17		
7	Write a shell script for SMTP for sending mail on INTRANET base system.	B1	25/10/17		
		B2	6/10/17		
		B3	4/10/17		
8	Write a shell script for SMB file shairing in Linux system.	B1	6/11/17		
		B2	3/11/17		
		B3	25/10/17		

In-Charge Faculty

Prof V. A Sinha

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G. Department of Computer Applications (MCA)

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Prof.A. P. Kinhikar **Year:** MCA 3rd Year Sem I

Subject Name: Artificial Intelligence (Theory) **Subject Code:** 5MCA1

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject, syllabus, importance etc.	July	Week2	1
2		Overview of Artificial Intelligence.			2
3		Knowledge : General concept			3
4		Introduction to LISP : Syntax			4
5		LISP and numerical functions		Week3	1
6		LISP list manipulation functions			2
7		predicates and conditional I/O			3
8		iteration and recursion and local variables.			4
9	Unit II	Property list and arrays.		Week4	1
10		Overview of Artificial Intelligence.			2
11		Knowledge representation			3
12		Syntax and symantics for PL		Week5	1
13		Syntax and symantics for FOPL			2
14		WFF			3
15		Conversion to clausal form	August	Week 1	1
16		Inference ~~fuels~~ Rules			2
17		The resolution principle			3
18	Unit III	Non-deductive inference methods			4
19		Truth maintenance system		Week 2	1
20		Default reasoning and closed world assumption			2
21		Predicate completion and circumscription			3
22		model and temporal logics			4
23		Overview of object oriented systems		Week 3	1
24		**Topics to be Covered**			2
25		Object classes messages and methods			3
26		simulation examples using OOS program		Week 4	1
27	Unit IV	Knowledge organization and manipulation			2
28		Examples of search problems			3
29		Uniformed and blind search,			4
30		Searching AND-OR graphs		Week 1	1
31		structure used in matching			2
32		Measures for matching: distance matrices			3
33		qualitative measures, similarity measures			4

34	Unit V	Partial matching, Indexing	September	Week 2	1
35		Integrating knowledge in memory			2
36		General concept in knowledge acquisition			3
37		Learning by induction			4
38		Analogical and explanation based learning		Week 3	1
39		Analogical learning			2
40		Analogical reasoning		Week 4	1
41		Explanation and learning			2
42		Expert system Importance & applications			3
43	Unit VI	Expert system architectures	October	Week	1
44		Rules based system architecture		Week 2	1
45		Nonproductive system architecture			2
46		Dealing with uncertainty			3
47		Knowledge acquisition and validation			4
48		Knowledge system building tools		Week 4	1
49		Expert system Importance & applications			2
50		Expert system & Embeded System			3

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Application
(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Prof. A. J. Pimprikar **Year: TYMCA** **Section: A.**

Subject Name: Software Project Management **Sem: I** **Subject Code:** 5MCA2

Sr. No	Unit No.	Topics to be Covered	Month	Week	Execution Day
1	UNIT I	Introduction: Software Project Management	July	Week1	1
2		Evolving role of Software			2
3		Software crises & myths. Software Engineering			3
4		Software process & Process Models : Linear Sequential , RAD		Week2	1
5		Evolutionary Process Models:Incremental. Spiral.			2
6		Process Models : Prototyping Models			3
7		Project management concepts : People, Product, Process, Project		Week3	1
8		W5HH principle. Critical Practice.			2
9	UNIT II	Measures. Metrics & Indicators.			3
10		Metrics in Process & Project Domains-Software Measurement.		Week4	1
11		Metrics for Software Quality. Small Organization			2
12		Software Projects Planning : Scope			3
13		Resources Estimation.			4
14		Decomposition Technique. Tools.		Week5	1
15		Software Risks : Identification, Risk Projection	August	Week1	1
16		Refinement & RMMM Plan.			2
17	UNIT III	Project Scheduling : Concepts. Peoples Efforts.			3
18		Task set. Task Network		Week2	1
19		Scheduling. EV Analysis. Project Plan			2
20		Software Quality Concepts			3
21		SQ Assurance. Software Reviews		Week3	1
22		Technical Reviews. Software reliability			2
23		ISO 9001. SQA Plan.		Week4	1
24		SCM Process. Version control. SCM standard.			2

25	UNIT VI	Software testing fundamentals	September		3
26		Test Case Design.		Week5	1
27		Whitebox Testing. Basis path			2
28		Control Structure. Blackbox-Testing for Specialized Environments.		Week1	1
29		Strategic Approach to S/W Testing,		Week3	1
30		Unit testing. Integration testing,			2
31		validation testing , system testing			3
32		Debugging. Technical metrics for software.			4
33	UNIT IV	System engineering : Hierarchy		Week4	1
34		Business Process & Product Engineering : Overviews.			2
35		Requirement engineering			3
36		System Modeling			4
37		Requirement Analysis		Week5	1
38		Analysis Principles			2
39		Software prototyping. Specification			3
40		Design Process. Design Principles & Concepts	October	Week1	1
41		Effective modular design.			2
42		Design Model & Documentation.			3
43		System engineering : Hierarchy		Week2	1
44	UNIT V	Software architecture. Data Design.			2
45		Architectural styles.			3
46		Requirement mapping			4
47		Transform & Transaction mappings		Week4	1
48		User-interface design			2
49		Golden Rule. UTD.			3
50		Task Analysis & Modeling			4
51		ID activities. Tools.		Week5	1
52		Design Evaluation			2
53		Component Level Design: Structure Programming.	November	Week1	1
54		Comparison of Design Notation.			2
55		Revision 1			3
56		Revision 2		Week2	1

In-charge Faculty

A. J. Pimpalkar

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G. Department Computer Applications

(Odd Semester AY: 2017-2018)

Session/Teaching Plan

Name of Faculty: Ms.Snehalata D. Ulhe **Year: MCA-III** **Section: A/B/DSE**

Subject Name:System Administration & Security **Sem: I** **Subject Code:** 5MCA3

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction,Security Concepts	July	Week2	1
2		Passive & active attacks,Authentication			2
3		Security Services			3
4		Security Mechanisms			4
5		Model of network security		Week3	1
6		Internet standards,Internet Society			2
7		Overview,Doubts & assignment			3
10	Unit II	Introduction to cryptography,Symmetric Encryption principles			4
11		Feistel Cipher Structure,DES		Week4	1
12		Triple DES,AES			2
13		Cipher block modes of operation(ECB,CBC,CFB,OFB,Counter)			3
14		Approaches to Message Authentication			4
15		Hash Function Requirements,Security of Hash Function,Simple Hash Function		Week5	1
16		Secure Hash Algorithm			2
17		Message Authentication Codes(HMAC,CMAC,)			3
18		Key distribution,Public Key Cryptography Principles			4
19		The RSA algorithm	August	Week1	1
20		Diffie-Hellman key exchange			2
21		Digital Signatures			3
22	Unit III	Introduction to E-Mail Security		Week2	1
23		Kerberos			2
24		X.509 certificates,versions			3
25		X.509 versions & services			4
26		PGP operational description		Week3	1
27		MIME functionality,S/MIME functionality			2

28	Unit IV	Overview of IP security,IP security architecture			3
29		Authentication header		Week4	1
30		Introduction to Web security,Web Security requirements			2
32		Secure Socket Layer architecure			3
34		Secure Socket Layer Protocol		Week 5	1
35		Transport layer Security			2
36		Secure Shell (SSH)			3
37	Unit V	TES	September	Week 1	1
38		Basic Concepts of SNMP		Week2	1
39		Network Management Architecture			2
40		Protocol architecture			3
40		SNMP v1 authentication service			4
41		Access Service		Week3	1
42		Proxy Service			2
43		SNMP v2 architecture			3
44		SNMP v2 architecture		Week4	1
45		Message processing and User Security Model			2
46		View based access control			3
47	Unit VI	Intruders , Intrusion technologies			4
48		Password protection, password selection		Week5	1
49		Intrusion detection			2
50		Viruses and related threats			3
51		Firewall			4
52		Trusted System concept,	Octobe r	Week2	1
53		Data access control			2
54		Data access control			3
55		Doubts and Discussion			4
56		Doubts and Discussion		Week4	1

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G. Department of Computer Applications (MCA)

(Odd Semester AY 2017-2018)

Session Teaching Plan

Name of Faculty: Prof. D. R. Bandbuche **Year:** MCA 3rd Year Sem I

Subject Name: Management Information System (Theory) **Subject Code:** 5MCA1

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject, syllabus, importance etc.	July		
2		Definition and Role of MIS Impact of MIS			
3		MIS and computers			
4		MIS and academics			
5		MIS support to Management Types of business			
6		Role and importance of management			
7		MIS and process of management MIS in orign structure			
8		Strategic Management Business I			
9	Unit II	Basics of MIS Decision making, Decision methods			
10		Behavioral concepts			
11		MISand decision making concepts, information			
12		Concepts and classification of information			
13		Methods value of information			
14		Organization and information			
15		Human as an information processor			
16		Development of MIS, Steps of DI			
17		Organizational decision making			
18	Unit III	Applications of MIS	August		
19		Applications in manufacturing sector			
20		Applications in service sector			
21		Introduction to service sector			
22		MIS applications in service industries			
23		DSS: Concepts and philosophy			
24		Deterministic systems and knowledge based expert systems			
25		Applications of MIS, MIS and role of DSS			
26		MIS in Enterprise Management System			
27	Unit IV	Technology in MIS in detail			
28		Data processing concept			
29		Transaction processing, Application processing			
30		Information System Processing,			
31		Introduction DBMS, Object Oriented Technologies			
32		Client Server Arch And MIS			
33		Data [illegible]			
34		DOM of IS			
35	Unit V	Network Topologies	September		
36		Selective Indexes, Binding			
37		VLM Introduction			
38		LAN, Data Communication			
39		Introduction to Business Process			
40		Process Mod [illegible]			
41		Redesign Business Process			
42		Relevance of DMIS and BPR			
43	Unit VI	MIS and Data warehouse, Datawarehouse Architecture	October		
44		Design and Justification of Datawarehouse Organization			
45		Management of data warehouse			
46		Management and implementation of data warehousing			
47		E-Business and models			
48		[illegible]			
49		MIS and E-Business			
50		Security of Databases, VLM Technology			

Prof. Ram Meghe Institute of Technology & Research, Badnera
P.G. Department of Computer Applications
(Odd Semester AY: 2017-18)

Session/Teaching Plan

Name of Faculty: Prof. S.V. Joshi **Year: FYMCA**

Subject Name: DATA WAREHOUSING & DATA MINING **Sem: I** **Subject Code: 5MCA5**

S. N	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the Data mining	July 2017	Week1	1
2		Data mining functions			2
3		classification			3
4		major issues			4
5		Data Preprocessing:		Week2	1
6		Data cleaning			2
7		data integration			3
8		data transformation			4
9		data reduction		Week3	1
10		discretisation & concept hierarchy generation			2
11	Unit II	Data mining primitives			3
12		data mining			4
13		query language		Week4	1
14		Concept description			2
15		Data generalization			3
16		Data classification			4
17		Analytical characterization		Week5	1
18		Mining class comparison	August 2017	Week1	1
19	UNIT III	Application and trends in data mining			2
20		data mining applications			3
21		data mining systems		Week2	1
22		research prototypes			2
23		additional themes on data mining			3

S. N		Topics to be Covered		Week	Day
24		Trends in data mining		Week2	4
25		Data ware house	August 2017	Week 3	1
26	UNIT IV	OLAP Technology for data mining			2
27		What is data ware house			3
28		data ware house architecture			4
29		new trends in data mining		Week 4	1
30		multidimensional data model			2
31		data ware house implementation			3
32		data ware house maintenance			4
33		prepare for growth and evaluation		Week 5	1
34		data ware house importance			2
35	UNIT V	Data Staging overview			3
36		plan effectively			4
37		dimension table staging	September 2017	Week 2	1
38		fact table loads			2
39		ware house operations			3
40		data quality & cleansing			4
41	Unit VI	Building end user applications		Week 3	1
42		role of end user application			2
43		application specification			3
44		end user application development			4
45		maintaining data ware house		Week 4	1
46		growing data ware house			2
47		security and administration			3
48		manage the existing data ware house environment			4

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

Odd Semester AY:2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof.A.P.Kinhikar

Subject Name: Artificial Intelligence LAB. Subject Code: 5 MCA 6

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	WAP in LISP to execute car, cdr, cons & list functions.	B1	3/7/17	APK	
		B2	4/7/17	APK	
2	WAP in LISP to execute append, last, member, reverse functions.	B1	17/7/17	APK	
		B2	19/07/17	APK	
3	WAP in LISP for implementing sequence or vectors.	B1	24/07/17	APK	
		B2	25/07/17	APK	
4	WAP in LISP to creating and implementing structure.	B1	31/7/17	APK	
		B2	1/8/17	APK	
5	WAP in LISP to check the use of predicates.	B1	2/8/17	APK	
		B2	2/8/17	APK	
6	WAP in LISP for creating function to find avg of numbers. Using array	B1	14/8/17	APK	
		B2	5/9/17	APK	
7	WAP in LISP to find the factorial using iterations.	B1	4/9/17	APK	
		B2	19/9/17	APK	
8	WAP in LISP for property list functions.	B1	25/9/17	APK	
		B2	26/9/17	APK	
9	WAP in LISP for implementing array concept.	B1	02/10/17	APK	
		B2	3/10/17	APK	
10	WAP in PROLOG for Monkey Banana problem.	B1	02/10/17	APK	
		B2	3/10/17	APK	

In-Charge Faculty

Prof. A.P.Kinhikar

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G.Department of Computer Applications

Odd Semester AY 2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof. A. J. Pimprikar

Subject Name:Software Project Management **Subject Code: 5MCA7**

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	Design a questionare for the given project Create 3 categories of questionaries for 1] High Level Employees 2] Middle Level Employees 3] Operational Level Employees.	B1	04/07/2017		
		B2	05/07/2017		
2	Write different type of risks for the given project 1] Project Risks 2] Business Risks 3] Technical Risks and prepare a RMMM plan.	B1	18/07/2017		
		B2	18/07/2017		
3	Study of Incremental Process Model for the given project.	B1	01/08/2017		
		B2	09/08/2017		
4	Prepare a Gantt Chart for the given project.	B1	23/08/2017		
		B2	16/08/2017		
5	Prepare design of product according to software design levels for the given project	B1	05/09/2017		
		B2	23/08/2017		
6	Implementation of architecture style on given project.	B1	26/09/2017		
		B2	06/09/2017		
7	Prepare a Test Document for the given Project (Manual Testing)	B1	04/10/2017		
		B2	27/09/2017		
8	Practical on Automated Testing of given Project - 1	B1	31/10/2017		
		B2	04/11/2017		
9	Practical on Automated Testing of given Project - 2	B1	07/11/2017		
		B2	07/11/2017		
10	Case study of mini project.	B1	10/10/2017		
		B2	11/10/2017		

In-Charge Faculty
Prof. A. J. Pimprikar

Prof. Ram Meghe Institute of Technology & Research Badnera

P.G. Department of Computer Applications

Odd Semester AY:2017-2018 (W-2017)

Execution of Practical Plan

Name of Faculty: Prof.S.D.Ulhe

Subject Name: System Administration & Security Lab Subject Code: 5MCA8

Sr. No	Name of Practical	Batch	Date	Sign of Faculty	Sign of HOD
1	Write a program to find IP address of Machine	B1	05/7/2017		
		B2	03/7/2017		
2	Write a program to Enerypt data using Shift Cipher.	B1	17/7/17		
		B2	19/7/17		
3	Perform encryption of text file using DES.(on Ubuntu system)	B1	24/7/17 - 31/7/17		
		B2	09/8/17		
4	Perform encryption of text file using AES. (on Ubuntu system)	B1	16/8/17		
		B2	14/8/17		
5	Perform encryption of text file using RSA. (on Ubuntu system)	B1	06/9/17		
		B2	04/9/17		
6	Find how many sites are present on one server.	B1	30/10/17		
		B2	25/10/17		
7	Change Windows Password using Tool.	B1	8/11/17		
		B2	6/11/17		
8	Create a Simple Virus.	B1	20/9/17		
		B2	25/9/17		
9	Create one critical virus	B1	25/10/17		
		B2	30/10/17		

In-Charge Faculty
Prof.S.D.Ulhe