

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	Hydraulically 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 theorem	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	
V	1	Impact of jet on stationary & moving plates		2	Total Lectures for Unit V: 8
	2	Symmetrical and asymmetrical curve vanes		1	
	3	Moment of momentum equation		2	
	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		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 Engineering					
Semester – IV (Session 2018-2019)					
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 measurements 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 quantities of ingredients for various items of work		2	
	3	Working out quantities of ingredients for various items of work		2	
	4	Working out quantities of ingredients for various items of work		2	
	5	Detailed Estimates, Abstract and Measurement 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 quantities of ingredients for various items of work		5	
	4	Detailed Estimates, Abstract and Measurement 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 2018-2019)					
Subject: Building Planning Designing and CAD					
SUBJECT TEACHER: Prof. P. S. Deshmukh					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark

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

Department of Civil Engineering					
Semester – IV (Session 2017-2018)					
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
	1	Properties of Fluid	Fluid Mechanics: R.K.Bansal	1	Total Lectures
	2	problems on properties of fluid		1	

I	3	Rheological classification of fluid, cohesion, adhesion and surface tension	Fluid Mechanics: R.K.Rajput	1	for Unit I: 8
	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	1	Total Lectures for Unit II: 8
	2	Forces on immersed areas- Curves		1	
	3	Buoyancy, Equilibrium of floating body	Fluid Mechanics: R.K.Rajput	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	1	Total Lectures for Unit III: 8
	2	Bernoulli's equation		2	
	3	HGL, EGL, Velocity distribution	Fluid Mechanics: R.K.Rajput	1	
	4	Energy & Momentum correction factor		1	
	5	Momentum equation		1	
	6	Forces on pipe bends		2	
IV	1	Venturi meter & Orifice meter	Fluid Mechanics: R.K.Bansal	2	Total Lectures for Unit IV: 8
	2	Pitot tube, Circular orifice & mouthpieces		2	
	3	Rectangular notch	Fluid Mechanics: R.K.Rajput	1	
	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 – IV (Session 2018-2019)					
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 characteristics	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 – III (Session 2018-2019)					
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 characteristics	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 – VII (Session 2018-2019)					
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 underreamed 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 2018-2019)					
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	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	Satyanarayanan : Construction, Planning & Equipment, Standard Pub.	1	
	4	Engineering surveys, geological investigation, subsurface exploration programme		1	
	5	Economic height of dam		1	
	6	Construction machinery, material, money, inventory.		2	
II	1	Rockfill dam : Introduction	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. Sharma H.D : Concrete Dams, Metropolitan Book Co, Delhi.	1	Total Lectures for Unit V: 7
	2	Foundation treatment including uplift consideration		1	
	3	Bank connection, energy dissipation, hydraulic design of opening and barrel, ventilation, types of gates.		2	
	4	Approach Channel, case study for one on rock foundation and one on permeable foundation.		1	
	5	Model Studies: scales design principles, materials, scale effects for model of dams spillway		2	
VI	1	Instrumentation : In earth dam and solid gravity dams, piezo meters, settlement, gauges (surface monuments, base plate, cross arm)	Peurifoy R.L. : Construction, Planning and Equipments, McGraw Hill Book Co. Satyanarayanan : Construction, Planning & Equipment, Standard Pub.	1	Total Lectures for Unit VI: 7
	2	Strain meters joint meters		1	
	3	Thermometers, stress meters, pore pressure cells, plumb-bob Seismograph		1	
	4	Water level gauges (description, object, location, working, installation of each		1	
	5	Increasing height of masonry and concrete dams		1	
	6	Strengthening, repairs and maintenance, leakage, evaporation controls. evaporation controls.		2	
Total Lectures Required				44	

Department of Civil Engg					
Semester –VI (Session 2018-19)					
Subject: Transportation Engg II					
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	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 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 – IV (Session 2018-2019)					
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	
	1	State of stress at a point, stress distribution in soil mass		1	

VI	2	Boussinesq's theory and its applications, point load, uniformly loaded rectangular and circular area	Soil Mechanics and Foundation Engineering - Dr. K. R Arora Soil Mechanics and Foundations – Prof. B. C. Punmia	1	Total Lectures for Unit VI: 6
	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 2018-2019)					
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	
VI	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	
	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 2018-2019) 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
	2	Design of Prestress Slab		3	

	3	Design of water tank		4	for Unit IV: 10
			Total Lectures Required	42	

Department of Civil Engineering					
Semester – VI (Session 2018-2019) Section C					
Subject: Design of RCC & Prestress Concrete Structures (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	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 Countertop 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 – VII (Session 2018-2019)					
Subject: Theory of Structure I					
SUBJECT TEACHER: Dr. N. P. Kataria					

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Classification of Structures, Concept of statically indeterminate beam and frame, Analysis of fixed beam and propped cantilever, Rotation and sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit I: 8
	2	Analysis of Continuous beam by theorem of three moments, sinking of support.		4	
II	1	Castigliano's theorem I, Unit load method, slope and deflection in determinate beams and portals.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit II: 8
	2	Deflection in determinate trusses.		4	
III	1	Influence line diagrams for reactions, bending moment and shear force for determinate beams.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit III: 8
	2	Rolling loads on simply supported beams concentrated and uniformly distributed loads, maximum shear force and bending moment, focal length.		4	
IV	1	Rolling loads on trusses, Influence line diagrams for forces in members of simple trusses.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit IV: 8
	2	Three hinged arches subjected to static loads, Bending moment, radial shear and axial thrust.		4	
V	1	Slope deflection method: Analysis of continuous beams with and without sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit V: 8
	2	Slope deflection method: Analysis of portal frames without side sway.		4	
VI	1	Moment Distribution method: Analysis of continuous beams with and without sinking of support.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit VI: 8
	2	Moment Distribution method: Analysis of portal frames without side sway.		4	
			Total Lectures Required	48	

Department of Civil Engineering					
Semester – VII (Session 2018-2019)					
Subject: Theory of Structure II					
SUBJECT TEACHER: Dr. N. P. Kataria					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Moment distribution method, application to portal frames with sway. Multibay, multistoried, symmetrical frames subjected to symmetric loads only.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit I: 8
	2	Slope deflection method: Application to portal frames with side sway.		4	
II	1	Kani's method: Continuous beams and single bay single storey portal frames with side sway.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit II: 8
	2	Multi- bay, multi storeyed frames subjected to symmetric loads.		4	
III	1	Castigliano's second theorem, principle of least work, Analysis of redundant frames. (up to two degree redundancy).	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit III: 8
	2	Analysis of redundant trusses (up to second degree of redundancy), lack of fit, temperature effect.		4	
IV	1	Maxwell's reciprocal theorem, Betty's theorem, Muller - Breslau's principle, Influence line diagrams for continuous beams, upto two span only.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	4	Total Lectures for Unit IV: 8
	2	Tension coefficient method & its applications to simple space trusses.		4	
V	1	Flexibility method, static redundancy, flexibility coefficients, compatibility condition application to beams.	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	3	Total Lectures for Unit V: 8
	2	Introduction to plastic analysis of steel structure, shape factor, plastic section modulus, Redistribution of moment, upper and lower bound theorems, collapse loads for beams, single bay, single storey portals.		5	

VI	1	Stiffness method, kinematic redundancy, stiffness coefficients, direct stiffness approach,	Structural Analysis (Volume I,II) S.S. Bhavikatti, Theory of Structure (Volume I, II) S. Ramamuttam	2	Total Lectures for Unit VI: 8
	2	application to continuous beams and single - bay, single - storey portal.		6	
			Total Lectures Required	48	

Department of Civil Engineering					
Semester – IV (Session 2018-2019)					
Subject: RCC I					
SUBJECT TEACHER: Prof. S.D.Malkkhede					
Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction, Syllabus	Concrete technology by MS shetty	1	Total Lectures for Unit I: 6
	2	Cement Manufacturing process.		1	
	3	Wet & Dry process		1	
	4	Properties of fresh concrete:		2	
	5	Mixing, centering & formwork, placing, compaction and curing of concrete		1	
II	1	Properties of hardened concrete:.,	Concrete technology by MS shetty	1	Total Lectures for Unit II: 8
	2	Grades of concrete		1	
	2	Properties of concrete,		1	
	3	Elasticity, creep, shrinkage.		1	
	4	Durability of concrete, laboratory tests on concrete		1	
	5	Durability of concrete, laboratory tests on concrete		1	
III	1	Pozzolana and Admixtures	Concrete technology by MS shetty	1	Total Lectures for Unit III: 8
	2	Plasticizer, retarders		1	
	3	Accelerators, water proofing agents,		1	
	4	Mineral admixtures, IS code provisions.		1	
	5	Concreting techniques: Guniting, grouting and shotcreting concrete, introduction & application of Ferrocement.		1	
	6	Concrete curing compounds		1	
	7	Bond aid for plastering,		2	
IV	1	Special concrete	Concrete technology by MS shetty	1	Total Lectures for Unit IV: 8
	2	Light weight concrete		2	
	3	Fibre reinforced concrete		1	
	4	Roller compacted concrete, selfcompacted concrete,		1	
	5	Concreting techniques: Guniting		1	
	6	Grouting and shotcreting concrete, introduction & application of Ferrocement.		2	
V	1	Introduction of mix design,	Concrete technology by MS shetty	1	Total Lectures for Unit V: 6
	2	Factors governing mix design		1	
	3	IS code method of mix design (IS:10262 – 1982) and ACI method.		2	
	4	IS code method of mix design (IS:10262 – 1982) and ACI method.		2	
VI	1	Basic elastic theory and concept of reinforced concrete,	Concrete technology by MS shetty	1	Total Lectures
	2	Types of reinforcement,		2	

	3	Analysis of rectangular sections by working stress method		1	for Unit VI: 8
	4	Modes of failure		1	
	5	Design of singly reinforced beams		1	
	6	One-way slabs		2	
			Total Lectures Required	42	

Department of Civil Engineering					
Semester – V (Session 2018-2019)					
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 – IV (Session 2018-2019)					
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	
	1	Contouring: Definition, Characteristics and uses of contour maps	Surveying & Levelling, Part I&II-	1	Total Lectures
	2	Methods of contouring.		1	

IV	3	Numericals on Levelling – I	T.P. Kanetkar & Kulkarni, Surveying I&II	2	for Unit IV: 6
	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 & Levelling – N.N. Basak	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		1	
			Total Lectures Required	40	

Department of Civil Engineering					
Semester – V (Session 2018-2019)					
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 underground.		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	
VI	1	Field Astronomy: Elements of spherical trigonometry	Surveying & Levelling, Part I&II- T.P. Kanetkar & Kulkarni, Surveying I&II – B.C. Punmia,	1	Total Lectures for Unit VI: 6
	2	Napier's rules of circular parts, celestial sphere, astronomical terms, Astronomical triangle, co-ordinate systems.		2	
	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	

PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY & RESEARCH, BADNERA

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME-TABLE SESSION 2018-19 (EVEN SEMESTER)

DAY	SEM	08.00 TO 09.00	09.00 TO 10.00	10.00 TO 10.30	10.30 TO 11.00	11.00 TO 11.30	11.30 TO 12.00	12.00 TO 12.30	12.30 TO 1.30	1.30 TO 2.30
MON	IV A	DS(11) OOT(12) CE(13) C-lab-II(14) asm awb ssk nsb	DS asm	RECESS	SSEE nsb		OOT awb	EVS ssh		
	IV B	CE nsw	NMORT aag	RECESS	DS(11) OOT(12) CE(13) C-lab-II(14) ppd gkv nsw msd		DS ppd	EVS rnk		
	VI A	CN(11) DBMS(12) C-Lab-IV(13) IOT(14) hdm sac sns nvk	DBMS sac	TOC nvk	RECESS	CN hdm	Aptitude			
	VI B	CN uvn	TOC msd	RECESS	CN(11) DBMS(12) C-Lab-IV(13) IOT(14) uvn prn aag rpf		DBMS prn	POM asd		
	VIII A	DWC svd	NAS sis	RECESS	P.E W. Comm asa	SE rmh	NAS(11) SE(12) C-Lab(13) PROJ(14) sis rmh rrp			
	VIII B	DWC pvi	NAS pvd	RECESS	Cloud Comp rrp	SE sdt	NAS(11) SE(12) C-Lab(13) PROJ(14) pvd sdt spt			
TUE	IV A	DS(14) OOT(11) CE(12) C-lab-II(13) asm awb ssk nsb	SSEE nsb	RECESS	CE ssk		OOT awb	DS asm		
	IV B	NMORT aag	DS ppd	RECESS	DS(14) OOT(11) CE(12) C-lab-II(13) ppd gkv nsw msd		OOT gkw	SSEE nsb		
	VI A	CN(14) DBMS(11) C-Lab-IV(12) IOT(13) hdm sac sns nvk	DBMS sac	CN hdm	RECESS	POM asd	TOC nvk			
	VI B	TOC msd	DBMS prn	RECESS	CN(14) DBMS(11) C-Lab-IV(12) IOT(13) uvn prn aag rpf		CN uvn	POM asd		
	VIII A	P.E W. Comm asa	DWC svd	RECESS	NAS sis	SE rmh	NAS(14) SE(11) C-Lab(12) PROJ(13) sis rmh rrp			
	VIII B	Cloud Comp rrp	SE sdt	RECESS	DWC pvi	NAS pvd	NAS(14) SE(11) C-Lab(12) PROJ(13) pvd sdt spt			
WED	IV A	DS(13) OOT(14) CE(11) C-lab-II(12) asm awb svd nsb	OOT awb	RECESS	DS asm		CE ssk	NMORT sns		
	IV B	OOT gkw	DS ppd	RECESS	DS(13) OOT(14) CE(11) C-lab-II(12) ppd gkv nsw msd		NMORT aag	SSEE nsb		
	VI A	CN(13) DBMS(14) C-Lab-IV(11) IOT(12) hdm sac sns nvk	CN hdm	TOC nvk	RECESS	DBMS sac	POM asd			
	VI B	DBMS prn	CN uvn	RECESS	CN(13) DBMS(14) C-Lab-IV(11) IOT(12) uvn prn aag rpf		TOC msd	Aptitude		
	VIII A	P.E W. Comm asa	SE rmh	RECESS	DWC svd	NAS sis	NAS(13) SE(14) C-Lab(11) PROJ(12) sis rmh rrp			
	VIII B	Cloud Comp rrp	DWC pvi	RECESS	NAS pvd	SE sdt	NAS(13) SE(14) C-Lab(11) PROJ(12) pvd sdt spt			
THU	IV A	DS(12) OOT(13) CE(14) C-lab-II(11) asm awb svd nsb	CE ssk	RECESS	OOT awb		NMORT sns	SSEE nsb		
	IV B	DS ppd	CE nsw	RECESS	DS(12) OOT(13) CE(14) C-lab-II(11) ppd gkv nsw msd		OOT gkw	EVS rnk		
	VI A	CN(12) DBMS(13) C-Lab-IV(14) IOT(11) hdm sac sns nvk	TOC nvk	POM asd	RECESS	CN hdm	DBMS sac			
	VI B	CN uvn	DBMS prn	RECESS	CN(12) DBMS(13) C-Lab-IV(14) IOT(11) uvn prn aag rpf		POM asd	Aptitude		
	VIII A	SE rmh	NAS sis	RECESS	P.E W. Comm asa	DWC svd	NAS(12) SE(13) C-Lab(14) PROJ(11) sis rmh rrp			
	VIII B	NAS pvd	DWC pvi	RECESS	Cloud Comp rrp	SE sdt	NAS(12) SE(13) C-Lab(14) PROJ(11) pvd sdt spt			
FRI	IV A	IIT Bombay Spoken Tutorial aag(11) /sdt(12) /asm(13)		NMORT sns	RECESS	OOT awb	DS asm	EVS ssh		
	IV B	IIT Bombay Spoken Tutorial pvd(11) /nsw(12) /gkw(13)		DS ppd	RECESS	SSEE nsb	CE nsw	OOT gkw		
	VI A	F. E-E-COMM spt	CN hdm	IIT Bombay Spoken Tutorial rmh(11) /nvk(12) /spt(13)			RECESS	POM asd	Aptitude	
	VI B	F. E - KM rpf	TOC msd	IIT Bombay Spoken Tutorial rrp(11) /prn(12) /uvn(13)			RECESS	CN uvn	DBMS prn	
	VIII A	SE rmh	P.E W. Comm asa	RECESS	DWC svd	NAS sis	IIT Bombay Spoken Tutorial awb(11) /rpf(12) /sac(13)			
	VIII B	DWC pvi	Cloud Comp rrp	RECESS	NAS pvd	SE sdt	IIT Bombay Spoken Tutorial sis(11) /hdm(12) /sns(13)			
SAT	IV A	DS asm	CE ssk	RECESS	NMORT sns	SSEE nsb				
	IV B	SSEE nsb	CE nsw	RECESS	OOT gkw	NMORT aag				
	VI A	F. E-E-COMM spt		RECESS	TOC nvk	DBMS sac				
	VI B	F. E - KM rpf		RECESS	TOC msd	POM asd				
	VIII A	Project								
	VIII B	Project								

Time Table In-Charge
25/12/18

Dept. of Information Technology,
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PROF. RAM MEGHE INSTITUTE OF TECHNOLOGY & RESEARCH, BADNERA

DEPARTMENT OF INFORMATION TECHNOLOGY

TIME-TABLE SESSION 2018-19 (ODD SEMESTER)

D A Y	SEM	08.00 TO 09.00	09.00 TO 10.00	10.00 TO 10.30	10.30 TO 11.00	11.00 TO 11.30	11.30 TO 12.00	12.00 TO 12.30	12.30 TO 1.30	1.30 TO 2.30		
M O N	III A	PM(1) EDC(2) ALP(3) C-lab-I(4) ppd ssk asm prn		EDC ssk	RECESS		PM ppd		M-III psd	EVS ssh		
	III B	EDC nsw	PM hdm	RECESS	PM(1) EDC(2) ALP(3) C-lab-I(4) hdm nsw pvd awb				M-III dvk	ALP pvd		
	V A	OS(1) DIC(2) C-Lab(3) C-S(4) rrp rpf spt gp		OS rrp		DIC rpf	RECESS		CAO awb	Aptitude Classes		
	V B	DIC gkw	CAO sis	OS(1) uvn	DIC(2) svd/gkw	C-Lab(3) sis	C-S(4) sbd	RECESS	OS uvn	Comm Skill pvg		
	VII A	DSP pvi	P.E MAS asa	RECESS	RTES aag		WT sac		DSP(1) rnh	WT(2) sac	RTES(3) aag	NPTEL(4) sns
	VII B	DSP svd	AI&ES nsb DDS nvk	RECESS	RTES msd		OOSAD prn		DSP(1) nvk	WT(2) sdt	RTES(3) msd	NPTEL(4) nsb
T U E	III A	PM(4) EDC(1) ALP(2) C-lab-I(3) ppd ssk asm prn		DS sns	RECESS		ALP asm		PM ppd	M-III psd		
	III B	DS asa	PM hdm	RECESS	PM(4) EDC(1) ALP(2) C-lab-I(3) hdm nsw pvd awb				ALP pvd	I-DL nsw		
	V A	OS(4) DIC(1) C-Lab(2) C-S(3) rrp rpf spt gp		OS rrp		DIC rpf	RECESS		CAO awb	C-Lab III spt		
	V B	DIC gkw	OS uvn	OS(4) uvn	DIC(1) svd/gkw	C-Lab(2) sis	C-S(3) yrv/avd	RECESS	CAO sis	Aptitude Classes		
	VII A	DSP pvi	RTES aag	RECESS	P.E MAS asa		OOSAD rrp		DSP(4) rnh	WT(1) sac	RTES(2) aag	NPTEL(3) sns
	VII B	DSP svd	WT sdt	RECESS	AI&ES nsb DDS nvk		OOSAD prn		DSP(4) nvk	WT(1) sdt	RTES(2) msd	NPTEL(3) nsb
W E D	III A	PM(3) EDC(4) ALP(1) C-lab-I(2) ppd svd asm prn		PM ppd	RECESS		EDC ssk		M-III psd	ALP asm		
	III B	M-III dvk	DS asa	RECESS	PM(3) EDC(4) ALP(1) C-lab-I(2) hdm nsw pvd awb				EDC nsw	PM hdm		
	V A	OS(3) DIC(4) C-Lab(1) C-S(2) rrp ssk/rpf spt gp		OS rrp		Prog Language asm	RECESS		CAO awb	DIC rpf		
	V B	OS uvn	CAO sis	OS(3) uvn	DIC(4) gkw	C-Lab(1) sis	C-S(2) pak	RECESS	DIC gkw	C-Lab III spt		
	VII	DSP pvi	WT sac	RECESS	P.E MAS asa		OOSAD rrp		DSP(3) rnh	WT(4) sac	RTES(1) aag	NPTEL(2) sns
	VII B	RTES msd	WT sdt	RECESS	AI&ES nsb DDS nvk		DSP svd		DSP(3) nvk	WT(4) sdt	RTES(1) msd	NPTEL(2) nsb
T H U	III A	PM(2) EDC(3) ALP(4) C-lab-I(1) ppd svd asm prn		M-III psd	RECESS		DS sns		EDC ssk	PM ppd		
	III B	M-III dvk	DS asa	RECESS	PM(2) EDC(3) ALP(4) C-lab-I(1) hdm nsw pvd awb				PM hdm	EVS mk		
	V A	OS(2) DIC(3) C-Lab(4) C-S(1) gkw ssk/rpf spt gp		OS rrp		DIC rpf	RECESS		CAO awb	Aptitude Classes		
	V B	OS uvn	CAO sis	OS(2) uvn	DIC(3) gkw	C-Lab(4) sis	C-S(1) yrv/avd	RECESS	DIC gkw	Aptitude Classes		
	VII A	DSP pvi	WT sac	RECESS	RTES aag		OOSAD rrp		DSP(2) rnh	WT(3) sac	RTES(4) aag	NPTEL(1) sns
	VII B	RTES msd	WT sdt	RECESS	DSP svd		OOSAD prn		DSP(2) nvk	WT(3) sdt	RTES(4) msd	NPTEL(1) nsb
F R I	III A	IIT Bombay Spoken Tutorial (1) pvd / (2) uvn / (3) prn		ALP asm	RECESS		M-III psd		DS sns	EVS ssh		
	III B	IIT Bombay Spoken Tutorial (1) nsw / (2) sns / (3) asm		ALP pvd	RECESS		DS asa		M-III dvk	EVS mk		
	V A	F. E-ICN rnh	DIC rpf	IIT Bombay Spoken Tutorial (1) aag / (2) rpf / (3) spt			RECESS		OS rrp	Comm Skill gp		
	V B	F. E - ITE & P spt	Prog Language sdt	IIT Bombay Spoken Tutorial (1) nsb / (2) sis / (3) rnh			RECESS		OS uvn	Comm Skill pvg		
	VII A	P.E MAS asa	RTES aag	RECESS	OOSAD rrp		WT sac		IIT Bombay Spoken Tutorial (1) sdt / (2) sac / (3) awb			
	VII B	AI&ES nsb DDS nvk	RTES msd	RECESS	WT sdt		OOSAD prn		IIT Bombay Spoken Tutorial (1) nvk / (2) hdm / (3) rnh			
S A T	III A	EDC ssk	PM ppd	RECESS	DS sns		ALP asm					
	III B	EDC nsw	ALP pvd	RECESS	PM hdm		M-III dvk					
	V A	F. E-ICN rnh		RECESS	CAO awb		Comm Skill gp					
	V B	F. E - ITE & P spt		RECESS	DIC gkw		CAO sis					
	VII A	Project										
	VII B	Project										

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AY:- 21018-19 Lesson Plan

Name of Faculty :- Prof. P. P. Thosare		Semester:- 1
Subject:	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	Phasor diagrams for series circuit & Series resonance	
26	Impedance triangle, Active & reactive power.	
27	Resonance in Series R-L-C Circuit and Numericals	
Unit – IV : Polyphase Circuit		
28	Generation of three phase EMF.	
29	3 Phase Balanced Delta and Star connected system.	
30	Voltage and Current relationship between phase and line quantities for star connection	
31	Numerical on three phase star connected system	
32	Voltage and Current relationship between phase and line quantities for Delta connection	
33	Numerical on three phase Delta connected system	
Unit – V : Electrical Machines		
35	A) Single phase Transformer:	
36	Principle of operation	
37	Construction & Classification	
38	EMF equation, losses, efficiency, Regulation of Transformer	
39	Numericals on efficiency , regulation of transformer	
40	B) Electromechanical Energy Conversion:	
41	Construction & various parts of DC machines	
42	Classification of DC machines, Characteristics & applications of DC machines	
Unit – VI : Electrical Apparatus & Safety		
43	Measurement of current & voltage (Ammeter & Voltmeter)	
44	Measurement of power & energy (Wattmeter & Energy- meter)	
45	Range extension of Ammeter, Voltmeter, Wattmeter & Energy- meter	
45	Necessity of Earthing, Limiting values for various installation, Types of Earthing (Pipe earthing & plate earthing)	
46	Measurement of current & voltage (Ammeter & Voltmeter)	

AY:-	2018-19		Lesson Plan	
Name of Faculty :-	Prof. Shalesh S. Dhok			Sem:- 1st
Subject :	Computer Programming	Subject Code:-	IB3	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 structures.	
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.	

2018-19
Sem I (Y)

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

AY:- 2018-19

Lesson Plan

Name of Faculty :- Prof. DR. K. D. Umale		Semester:-T
Subject:	ENGG. CHEMISTRY (1B2)	Section : Y
Lecture No.	Topics	Remark
	Water Treatment and Analysis	
1	Introduction, Hardness of water, Types of hardness - temporary & permanent hardness, Units of Hardness and their inter-conversion	
2	Hardness determination by EDTA method	
3	Disadvantages of hard of water, Boiler troubles: Scale and Sludge formation, Caustic embrittlement,	
4	Priming & Foaming, Boiler corrosion	
5	Zeolite process and Reverse Osmosis (RO)	
6	Softening of hard water by Ion exchange process & its regeneration	
7	Numerical Problem based on Hardness of water	
8	Numerical Problem based on Zeolite process	
	UNIT No. 2	
	Corrosion and Energy storage system	
9	Introduction of corrosion, Dry and its mechanism	
10	Wet corrosion and its mechanism	
11	Pitting, waterline and inter-granular corrosion	
12	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 No. 3	
	Engineering Materials	
17	Introduction of Portland cement, Raw materials for the manufacturing of portland cement.	
18	Manufacturing of portland cement by wet Process	
19	Properties of cement- Setting and hardening	
20	Heat of hydration and soudness of cement	
21	Introductuion of Lubricants and its classification, Machanism of Lubrication	
22	Testing of lubricants for viscosity and viscosity index, flash and fire point	
23	Industrial Material: Definition, properties and Applications of ceramics & refractories.	
24	Industrial Material: Definition, properties and Applications of thermal insulating material and Nanomaterial	
	UNIT No. 4	
	Energy Science	

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

Prof. Ram Meghe Institute of Technology & Research, Badnera

Department of First Year Engineering Department

AY- 2018-19

Lesson Plan

Name of Faculty :- Prof. Dr N. B. Ingale		Semester-I
Subject:	Engineering Physics ⁰ (IA2)	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 spectrograph	
26	CRO:Block diagram, its working and applications	
27	Problems	
28	Interference:Thin film due to reflected light	
29	Newton's ring	
30	Applications of Newton's rings	
31	Diffraction:Theory and Grating equation	
32	Problems	
33	FIBER OPTICS : Construction and principle	
34	Acceptance angle and NA	
35	Types of Optical fiber	
36	Attenuation,Advantages and applications	
37	Problems	
38	Laser: Properties,Applications	
39	Absorption, spontaneous and stimulated emission	
40	Metastable state, Pumping, Three level laser	
41	Ruby laser	
42	Acoustics of Buildings: reverberation,Sabine's Eqn.	
43	Basic Requirements for Acoustically Good Hall	
44	Factors affecting acoustically Good Hall	
45	Problems	
46	Continuity equation,Viscosity, Stoke's law	
47	Bernoulli's theorem	
48	Poiseuille's Equation	
49	Ultrasonics: Properties, Production of Ultrasonic	
50	Uses of Ultrasonics waves and Problems	

Handwritten signature: Prof. Dr N. B. Ingale

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

AY: 2018-19		Semester: I
Name of Faculty :- Prof. C.T. Prajapati		Section : D
Subject:	Engineering Mechanics	
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	FRICITION- Coulomb's law of friction	
14	FRICITION- Problems on Friction	
15	FRICITION- Static belt friction	
16	FRICITION- 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 and product of area	
21	CENTRE OF GRAVITY- Transfer theorems, polar moment of inertia	
22	CENTRE OF GRAVITY- Radius of gyration	
23	CENTRE OF GRAVITY- Definition of principle axes and principle moment of inertia.	
24	KINEMATICS- Definitions of displacement, velocity and acceleration and their relations	
25	KINEMATICS- Rectilinear motion under variable & constant accelerations	
26	KINEMATICS- Motion curves	
27	KINEMATICS- Simple relative motion between two particles	
28	KINEMATICS- Curvilinear motion using rectangular coordinates	

Ram Meghe

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	

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

AY:- 2018-19

Lesson Plan

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

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	

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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	

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Lesson Plan

AY:- 2018-19

Name of Faculty :- D. G. Mose

Subject : Engg. Mathematics - I

Subject Code:- IAI/10082

Semester:- I

Section : A

Lect No	Topics	Remark
1	Unit I:-Introduction of syllabus & university Examination Pattern.	
2	Successive 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 product 2.	
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	De Moivre's theorem.	
33	Application of De Moivre's theorem 1.	
34	Application of De Moivre's theorem 2.	
35	Hyperbolic and Inverse hyperbolic function 1.	
36	Hyperbolic and Inverse hyperbolic function 2.	

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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 to Homogeneous 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.	



S.No.	Topic	Remarks
1	Unit I: Introduction to matrix and its applications/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 its 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	

37	Meaning and use of Rectification	
38	Rectification in cartesian coordinates	
39	Rectification in cartesian coordinates	
40	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 Cylindrical 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.	

12

AY:- 21018-19 Lesson Plan

Name of Faculty :- Prof. P. P. Thosare		Semester:- II
Subject:	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)	

AY:-	2018-19	Lesson Plan	
Name of Faculty :- Prof. Shailesh S. Dhok			Sem:- 3 rd
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 structures.	
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.	

2018-19
Sem I (Y)

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

AY:- 2018-19

Lesson Plan

Name of Faculty :- Prof. DR. K. D. Umale		Semester:-T
Subject:	ENGG. CHEMISTRY (1B2)	Section : Y
Lecture No.	Topics	Remark
	Water Treatment and Analysis	
1	Introduction, Hardness of water, Types of hardness - temporary & permanent hardness, Units of Hardness and their inter-conversion	
2	Hardness determination by EDTA method	
3	Disadvantages of hard of water, Boiler troubles: Scale and Sludge formation, Caustic embrittlement,	
4	Priming & Foaming, Boiler corrosion	
5	Zeolite process and Reverse Osmosis (RO)	
6	Softening of hard water by Ion exchange process & its regeneration	
7	Numerical Problem based on Hardness of water	
8	Numerical Problem based on Zeolite process	
	UNIT No. 2	
	Corrosion and Energy storage system	
9	Introduction of corrosion, Dry and its mechanism	
10	Wet corrosion and its mechanism	
11	Pitting, waterline and inter-granular corrosion	
12	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 No. 3	
	Engineering Materials	
17	Introduction of Portland cement, Raw materials for the manufacturing of portland cement.	
18	Manufacturing of portland cement by wet Process	
19	Properties of cement- Setting and hardening	
20	Heat of hydration and soudness of cement	
21	Introductuion of Lubricants and its classification, Machanism of Lubrication	
22	Testing of lubricants for viscosity and viscosity index, flash and fire point	
23	Industrial Material: Definition, properties and Applications of ceramics & refractories.	
24	Industrial Material: Definition, properties and Applications of thermal insulating material and Nanomaterial	
	UNIT No. 4	
	Energy Science	

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

Department of Management Studies
Semester –I
Teaching Plan-2018-2019
Subject: Accounting for Managers
Subject Teacher: Prof. G. D. Pachaghare

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

		- II			
	03	Inventory Valuation Methods – Part I	House. Accounting for Mgt., S.K. Bhattacharya and Dearden J., New	01	
	04	Inventory Valuation Methods – Part II		01	
	05	Inventory Valuation Methods – Part III		01	
	06	Case Study and Situation		01	
Total Lecture				06	
IV	01	Management Accounting Concept, Need, Importance & Scope	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Budget & Budgetary control: Part I	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	03	Budget & Budgetary control: Part II		01	
	04	Budget & Budgetary control: Part III		01	
	05	Performance & zero Based Budgeting	Accounting for Mgt., Khan and Jain.	01	
	06	Case Study and Situation		01	
Total Lecture				06	
V	01	Cost Sheet: Introduction, Elements of Cost Sheets	Accounting for Mgt., Dr. Jawaharlal, Himalaya Pub. House.	01	
	02	Types of Costing, Costing for Decision Making	Accounting for Mgt., S.K. Bhattacharya and Dearden J., New Delhi, Vikas, 1996	01	
	03	Marginal Costing: Part I		01	
	04	Marginal Costing: Part I	Accounting for Mgt., Khan and Jain.	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-2018-2019

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	1.1	*INDIAN MANAGEMENT Indian Management – Principles	*Business Ethics,	02	
	1.2	Models & Theory of Karma,	CSV Murthy,	02	
	1.3	Theory and Practices of Holistic Management and its relevance	Himalaya Publications.	02	
	1.4	Case Problem	*Indian Ethos and	01	
	1.5	Case Study	Values ,N.M.Khandelwal, Himalaya Publications	01	
			TOTAL LECTURES		08
II	2.1.	*ETHICS Ethics – Meaning & Objectives Sources of Ethics	*Business Ethics, CSV Murthy,	02	
	2.2.	Types of Business Ethics	Himalaya	01	
	2.3.	Factors influencing Business Ethics	Publications.	01	
	2.4.	Ethics V/s Morals and Values	*Indian Ethos and Values ,N.M.Khandelwal, Himalaya	01	
	2.5.	Case Problem	Publications	01	
	2.6	Case Study		01	
		TOTAL LECTURES		07	
III	3.1.	*MANAGING ETHICS Managing Ethics – Theories of Ethics	*Business Ethics, CSV Murthy,	01	
	3.2.	Ethical Dilemma	Himalaya	01	
	3.3.	Codes of Ethics	Publications.	01	
	3.4.	Normative Ethics in Management	*Indian Ethos and Values ,N.M.Khandelwal, Himalaya	01	
	3.5.	Need and Values of Ethics in Global Change	Publications	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.	*INDIAN VALUES IN MANAGEMENT Indian Values in Management – Secular and Spiritual Values	*Business Ethics, CSV Murthy, Himalaya Publications.	01	
	4.2.	Science and Human Values		01	
	4.3.	Lessons from Ancient Indian Educational System	*Indian Ethos and Values ,N.M.Khandelwal,	02	
	4.4	Case Problem		01	
	4.5	Case Study	Himalaya Publications	01	
			TOTAL LECTURES		06
V	5.1.	*STRESS MANAGEMENT Stress Eustress & distress	*Business Ethics, CSV Murthy, Himalaya Publications.	01	
	5.2.	Indian Perspective of Stress Management,		01	
	5.3.	Reasons for stress at workplace		01	
	5.4.	Coping with a stress	*Indian Ethos and Values ,N.M.Khandelwal,	01	
	5.5	Case Problem		01	
	5.6	Case Study	Himalaya Publications	01	
		TOTAL LECTURES		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 2018-2019)					
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 2018-2019)
Subject: Management Information System
SUBJECT TEACHER: Prof. S. B. Diwan

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

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Department of Management Studies

Semester –I (Session 2018-2019)

Lesson Plan

Subject: Managerial Skills Development

Subject Teacher: Yuvaraj Vaidya

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

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

Total lectures required	36
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 Department of Management Studies
 P.R.M.I.T. & R., Badnera

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

Lesson Plan Year 2018-2019

Subject: Principle and Practices of Management (101)

Subject Teacher: Prof. T. A. Paralkar

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

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

Semester – (Session 2018-2019)

Subject: Quantitative Methods

SUBJECT TEACHER: Prof. K. S. Bijawe

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

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

Department of Management Studies - Semester –I (Session 2018-2019)

Subject: MBA/ 105 Organizational Behavior and Effectiveness

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	Introduction to Organizational & Individual Behavior	1.Organizational Behaviour-Aswathappa, K. 2.Organizational Behaviour-Fred Luthans 3.Organizational Behaviour-Robbins, Judge, Vohra	2	Total Lectures for Unit I: 7
	2	Personality (Video on types of Personality)		1	
	3	Learning		1	
	4	Perception (Movie Clip of Corporate)		1	
	5	Attitude & Beliefs		1	
	6	Case Study (Video)		1	
II	1	Group Behavior – Meaning	1.Organizational Behaviour-Aswathappa, K. 2.Organizational Behaviour-Fred Luthans 3.Organizational Behaviour-Robbins, Judge, Vohra	1	Total Lectures for Unit II: 8
	2	Types of Groups		1	
	3	Group Process		1	
	4	Group Dynamics		2	
	5	Group Dynamics – factors influencing intergroup behavior and managing intergroup behavior		2	
	6	Case Let's		1	
III	1	Organizational Change – Concept & Need	1.Organizational Behaviour-Aswathappa, K. 2.Organizational Behaviour-Fred Luthans 3.Organizational Behaviour-Robbins, Judge, Vohra	2	Total Lectures for Unit III: 7
	2	Change Process		2	
	3	Reasons for Resistance to Change		1	
	4	Measures to Overcome Resistance to Change		1	
	5	Case Let's		1	
IV	1	Organizational Processes – Organizational Power	1.Organizational Behaviour-Aswathappa, K. 2.Organizational Behaviour-Fred Luthans 3.Organizational Behaviour-Robbins, Judge, Vohra	2	Total Lectures for Unit IV: 7
	2	Organizational Politics		2	
	3	Employee Empowerment & Conflict		2	
	4	Case Let's		1	
V	1	Organizational Effectiveness – Creativity and Innovation,	1.Organizational Behaviour-Aswathappa, K. 2.Organizational Behaviour-Fred Luthans 3.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
Semester –II (Session 2018-2019)
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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 Department of Management Studies
 P.R.M.I.T. & R. Badnera

Lesson Plan
Subject: Financial Management
Semester –II (Session 2018-2019)
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
 P.R.M.I.T. & R. Badnera

Department of Management Studies

Semester –II (Session 2018-2019)

Subject: Human Resource Management

Subject Teacher: Prof. M.M.Nistane

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

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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: Logistic Management
Semester –II (Session 2018-2019)
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	


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

Department of Management Studies Semester –II (Session 2018-2019)

Teaching Plan

Subject: Marketing 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 Marketing	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Functions of Marketing Management		2	
	3	Marketing organisation		2	
	4	Corporate Orientation towards the Market Place		1	
	5	Marketing Environment & Environment Scanning		1	
	6	Case Study		1	
		Total Lectures		8	
II	1	Meaning & Significance of Marketing Planning	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Strategic Planning		2	
	3	Planning of Marketing Mix Elements		2	
	4	Market Segmentation		1	
	5	Positioning		1	
	6	Case Study		1	
		Total Lectures		8	
III	1	Product Decisions, Product Mix	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Product Life Cycle		2	
	3	New Product Development		1	
	4	Branding & Packaging Decisions		2	
	5	Pricing Model & Strategies		1	
	6	Case Study		1	
		Total Lectures		8	
IV	1	Physical Distribution Decisions & Targetting	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	2	
	2	Major Channels		1	
	3	Channels of Consume Product		1	
	4	Channels of Industrial Product		1	
	5	Case Study		1	
		Total Lectures		6	
V	1	Promotion Mix	Marketing Management- Kotler, Koshy & Jha; Marketing Management-Text & Cases- Dr.K. Karunakaran	1	
	2	Advertising		1	
	3	Sales Promotions		1	
	4	Publicity & Personal Selling		1	
	5	Introduction to Marketing Research & its Significance		1	
	6	Case Study		1	
		Total Lectures		6	

36


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

**Prof. Ram Meghe Institute of Technolgy and Research, Badnera-Amravati.
Department of Management Studies (MBA)**

Lesson Plan

**Subject -Management Science
Faculty Incharge-Prof. T.A.Paralkar**

Year -2018-19

Unit No.	Topic No.	Topics with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Basic Concept of Management Science-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 I: 7
	2	Role of Management Science in Decision Making-I		2	
	3	Decision Theory		1	
	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: 7
	2	Branch & Bound Algorithm		2	
	3	Sensitivity Analysis		3	
III	1	Transportation Model	Sharma J.K. Operations Research: Theory and Applications New Delhi, Macmillan India Ltd. 1997	4	Total Lectures for Unit III: 8
	2	Assignment Model		4	
IV	1	Network Analysis-Pert	Taha, H.A. Operations Research, An introduction, New York, Mc-Millan, 1989.	4	Total Lectures for Unit IV: 7
	2	Network Analysis-CPM		3	
V	1	Markov Chain Analysis	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: 6
	2	Game Theory		2	
	3	Simulation		2	
Total Lectures Required- 36					


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Department of Management Studies

Semester –II (Session 2018-2019)

Teaching Plan

**Subject: Production & Operations Management
Bijawe**

Subject Teacher: Prof.K. S.

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

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


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Department of Management Studies Semester –II (Session 2018-2019)

Teaching Plan

Subject: Research Methodology.

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	Research And Scientific Method	Research Methodology- C. R. Kothari	2	
	2	Nature And Scope Of Research Methodology		2	
	3	Problem & Hypothesis Formulation		1	
	4	Research Objectives,		1	
	5	Value & Cost Of Information		1	
	6	Case Study		1	
		Total Lectures		8	
II	1	Organisation Structure For Research,	Research Methodology- C. R. Kothari	2	
	2	Research Process ,Research Design,		1	
	3	Exploratory Research		1	
	4	Descriptive & Experimental Research Design		1	
	5	Research Agencies- Government And Non Government		1	
	6	Case Lets		1	
		Total Lectures		7	
III	1	Data-Types Of Data	Research Methodology- C. R. Kothari	1	
	2	Methods Of Primary Data Collection		1	
	3	Observation, Questionnaire, Interview, Survey Method		2	
	4	Modern Tools Of Data Collection, Schedules, Tabulation		1	
	5	Analysis And Interpretation Of Primary Data		1	
	6	Case Lets		1	
		Total Lectures		7	
IV	1	Attitude Measurement Techniques	Research Methodology- C. R. Kothari	2	
	2	Motivational Research Techniques		2	
	3	Sample Design		1	
	4	Selection Of Appropriate Statistical Techniques		1	
	5	Case Study		1	
		Total Lectures		7	
V	1	Testing Of Hypothesis	Research Methodology- C. R. Kothari	2	
	2	Use Of Statistical Software, Factor Analysis		2	
	3	Conjoint Analysis, Regression Analysis		1	
	4	Research Report		1	
	5	Qualities Of Optimally Viable Research Report		1	
	6	Case Study		1	
		Total Lectures		8	

36


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Odd-Semester – III (Session 18-19)-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	Banking system in India-Indigenous Bankers, Commercial Banks, Co-operative Banks,	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	1
	2	Regional Rural Banks-Private Sector Banks, Foreign Banks, Merchant Banking,		1
	3	Banking Sector Reforms, Primary, Secondary and Subsidiary		2
	4	Functions of Banks, Banking Innovation, Globalization of Indian Banking Sector, Banking in New Millennium.		2
		Total		07
II	1.	Banking Regulation-Banking business, Capital requirement, management, licensing, new branches, loans and advances,	Vasant Desai, Bank Management, Himalaya Publishing House.	3
	2.	NPA'S, Acquisition of Business,		2
	3.	Winding up and Amalgamation, major issues of banking, Bank Management.		2
		Total		07
III	1.	Central Banking: Concept and Meaning, Major Central Banks,	S. Gurusamy, "Banking Theory: Law and Practices," Tata McGraw Hill 2 nd Ed., 2009.	2
	2.	Reserve Bank of India, it's role and functions,		1
	3.	Banking Regulation by RBI, RBI & Agricultural Credit,		1
	4.	Industrial Finance and Bill Market System.		2
		Total		07
IV	1.	Commercial Banking: Concept and Scope, Commercial Banking	Gordon-Natrajan, Banking Theory, Law and Practice, Himalaya Publishing House	2
	2.	Risk Management		2
	3.	Functions and Services of Commercial Banks,		1
	4.	Credit Management, Installation and Significance of Sound Credit Culture		3
		Total		08
V	1.	Upcoming Issues in Banking, Customer Services, CRM,	Vasant Desai, Bank Management, Himalaya Publishing House.	3
	2.	Human Resource Management,		1
	3.	Financial Management,		1
	4.	Marketing Management of banking services, New Trend in Banking		2
		Total		06

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

Department of Management Studies

Semester –III (Session 2018-2019)

Subject: MBA/301 BUSINESS LAW

SUBJECT TEACHER: Prof. P. A. Kalmegh

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

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

Lesson Plan

Subject: International Financial Management

Semester –IIIrd (Session 2018-2019)

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 2018-2019)

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	01	
	2	Trends of Money Market		01	
	3	Capital Market		02	
	4	Debt Market	M Vora :- Indian financial system Anmol Publications	01	
	5	Bill Market		01	
	6	Foreign Exchange Market		01	
	7	Case study		01	
Total Lecture				08	
III	01	Role and significance of stock exchanges	Bharti V Pathak :- Indian financial	01	

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


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Department of Management Studies**Semester –III (Session 2018-2019)****Teaching Plan****Subject: Investment Science****Subject Teacher: Prof. K. S. Bijawe**

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

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


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Department of Management Studies

Semester –III (Session 2018-2019)

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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P.R.M.I.T. & R., Gadnera

Lesson Plan

Subject: Working Capital Management

Semester -IIIrd (Session 2018-2019)

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				
Semester –III (Session 2018-2019)				
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 2018-2019) - 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.	HRD- Concept & Goals	1. HRD - BY Rao T.V.	01	
	2.	Challenges (A Case of video Challenges)		01	
	3.	Climate (Videocon)	2. HRD –Dr.Lalitha	01	
	4.	Practices in India (Practical Ex.of Patanajali)	Balakrishnan,S Srividhya	01	
	5.	Learning and HRD		01	
	6.	Case Study	3. HRD – By P. Subba Rao	02	
		Total		07	
II	1.	HRD System Design	1. HRD - BY Rao T.V.	01	
	2.	Assessing HRD Needs		01	
	3.	Designing & Implementing HRD Programs		01	
	4.	Case Let	2. HRD –Dr.Lalitha	01	
	5.	Evaluating HRD Program (Ex. Wipro co.)	Balakrishnan,S Srividhya	01	
	6.	Case Let		01	
	7.	Staffing & HRD Function	3. HRD – By P. Subba Rao	01	
	8.	Case Let		01	
		Total		08	
IV	1.	Career Management Development	1. HRD - BY Rao T.V.	01	
	2.	Concept, Objectives	2. HRD – By Werner	01	
	3.	Relevance & Process	Desimone	01	
	4.	Case Let	3. HRD – By P. Subba Rao	01	
	5.	Career & Succession Planning (Ex. Google)		01	
	6.	Case Let		01	
	7.	Post Retirement Planning		01	
		Total		07	
III	1.	HRD Strategies for Employee (Introduction)	1. HRD – By Werner	02	
	2.	Case Let	Desimone	01	
	3.	Employee Socialization & Orientation	2. HRD – By P. Subba Rao	01	
	4.	Case Let		01	
	5.	HRD Intervention		01	
		Total		06	
V	1.	Counseling	1. HRD - BY Rao T.V.	01	
	2.	Coaching	2. HRD –Dr.Lalitha	01	
	3.	Mentoring & Performance Mgt.	Balakrishnan,S Srividhya	01	
	4.	HRD & Organizational Change		01	
	5.	HRD & Diversity in Work Force	3. HRD – By P. Subba Rao	01	
	6.	HRD Audit & Accounting		01	
	7.	Case Study - 2		02	
		Total		08	
		Total Lectures		36	

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

Department of Management Studies				
Semester – III (Session 2018-2019)				
Lesson Plan				
Subject – Human Relations & Legal Framework			Teacher: M. S. Sadar	
Unit No.	Topic No	Topic	Text and References	No. of Periods Allotted
I	1	Labour Laws Introduction	http://www.lawyersclubindia.com/articles/Brief-Overview-of-Labour-Laws-in-India-6040.asp#.Vad9S19Viko	2
	2	Objectives & Importance of Labour Laws	http://www.yourarticlelibrary.com/law/necessity-and-importance-of-labour-law-and-principles/34381/	2
	3	Socio Economic Environment of Labor Laws	http://dyuthi.cusat.ac.in/xmlui/bitstream/handle/purl/2788/Dyuthi-T0809.pdf?sequence=1	1
	4	(Case Study)	University Question Papers	1
II	5	Laws Relating to Industrial Disputes	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	6	Trade Union	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	7	Standing Orders	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	8	Law Relating to Discharge	http://www.lawteacher.net/free-law-essays/employment-law/misconduct-as-a-ground-for-ermination-of-employment-law-essay.php	1
	9	Misconduct	http://www.lawteacher.net/free-law-essays/employment-law/misconduct-as-a-ground-for-ermination-of-employment-law-essay.php	1
	10	Domestic Enquiry – Disciplinary Action	http://www.lawyersclubindia.com/articles/Disciplinary-Actions-4743.asp#.Vad_bF9Viko	2
	11	(Case Study)	University Question Papers	1
III	12	Laws Relating to	Legal Aspectes of Business, R S Pillai & Bhagvathi	2

		Workmen Compensati on		
	13	Employee State Insurance Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	14	Provident Fund	http://www.legalissuesforngos.org/main/other/EPF.pdf	1
	15	The Payment of Gratuity Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	16	Maternity Benefits Act	Legal Aspectes of Business, R S Pillai & Bhagvathi	1
	17	(Case Study)	University Question Papers	1
IV	18	The Law of Minimum Wages	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	19	Payment of Wages	Legal Aspectes of Business, R S Pillai & Bhagvathi	2
	20	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/fmReportLaws33.aspx	1
	24	(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 2018-2019)

Teaching Plan

Subject: HR-3301/ Management of Industrial Relations

Subject Teacher: Prof. Minal M.Nistane.

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

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Department of Management Studies

Odd-Semester – III (Session 2018-19)-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	Training – a change agent, Video	"Training & Development Methods" by Dr. Rishipal & Scholary Articles	2	
	2	Training Environment		1	
	3	Pre – Training module-Formats		1	
	4	Counseling for Training,		1	
	5	Training Costs		1	
	6	Training Investment		1	
	7	Case Study		1	
		Total		08	
II	1.	Training Functions, Training Needs Assessment	"Training & Development Methods" by Dr. Rishipal & Lynton and Pareek	2	
	2.	Action Research-Module		2	
	3.	Organizational Objectives and Training		2	
	4.	Case Study		1	
		Total		07	
III	1.	Introduction of Learning & Learning Process	"Training & Development Methods" by Dr. Rishipal	2	
	2.	Organizational Training Climate		2	
	3.	Development and Designing Training Modules		2	
	4.	Formats of training Sheet,		1	
	5	Case Study		1	
		Total		07	
IV	1.	Training Methods	"Training & Development Methods" by Dr. Rishipal & Scholary Articles	2	
	2.	Techniques & Pedagogy		2	
	3.	Training aids & Tools		1	
	4.	Facilities for Training		1	
	5	Case Let's		1	
		Total		07	
V	1.	Training Feedback	"Training & Development Methods" by Dr. Rishipal & Journals	2	
	2.	Evaluation Training Audit		2	
	3.	Training as Continuous Process		2	
	4.	Case Study		1	
		Total		07	36


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Department of Management Studies
Semester –III (Session 2018-2019)
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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Department of Management Studies
Semester –III (Session 2018-2019)
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
I	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	
	7	Case Study on Unit I		1	
II	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	
	7	Case Study on Unit II		1	
III	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	
	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	
V	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	
	7	Case Study on Unit V		1	


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 Department of Management Studies
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Department of Management Studies
Semester –III (Session 2018-2019)
Teaching Plan

Subject: Agro Business 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)	Agricultural, Allied Products.	*Agricultural	01	
	b)	Agro Processed Products.	Marketing in	01	
	c)	Agro Processed Products status in Indian Market.	India – S.S. Acharya and N	02	
	d)	Emerging Issues in the business Agriculture Produces.	L Agarwal – Oxford & IBH	02	
	e)	CASE STUDY	Publishing Co. Pvt. Ltd. Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhave	07
II	a)	Agriculture Marketing: Concept.	*Agricultural	02	
	b)	Definition & Scope.	Marketing in	01	
	c)	Objectives.	India – S.S. Acharya and N	01	
	d)	Upcoming Practices in Agriculture Marketing.	L Agarwal – Oxford & IBH	02	
	e)	CASE STUDY	Publishing Co. Pvt. Ltd. Calcutta.	01	
			TOTAL LECTURES	*Agribusiness Management in India – Text & Cases – Dr. Subhash Bhave	07

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

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

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


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

Department of Management Studies
Semester –III (Session 2018-2019)
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)	Concept of Brand.	*Keller-Strategic	01	
	b)	Brand Evolution.	Brand Management,	01	
	c)	Brand Hierarchy.	Building, Measuring	01	
	d)	Brand Image.	& Managing Brand	02	
	e)	Brand Identity – Perspectives.	Equity, 2 nd Ed. PHI.	01	
	f)	Brand Identity – Levels.	*U.C. Mathur- Brand	01	
	g)	Brand Identity – Prism.	Management, Text	01	
	h)	CASE STUDY	and Cases,	01	
			TOTAL LECTURES		09
II	a)	Brand Personality.	*Keller-Strategic	02	
	b)	Brand Positioning.	Brand Management,	01	
	c)	Brand Repositioning.	Building, Measuring	01	
	d)	Brand Equity.	& Managing Brand	02	
	e)	Types of Branding – Product, Line, Range.	Equity, 2 nd Ed. PHI.	01	
	f)	Umbrella & Endorsement Branding.	*U.C. Mathur- Brand	01	
	g)	CASE STUDY	Management, Text and Cases, Macmillan Ltd.		
		TOTAL LECTURES		09	
III	a)	Brand Creation.	*Keller-Strategic	01	
	b)	Brand Product Relationship.	Brand Management,	01	
	c)	Brand Portfolio.	Building, Measuring	02	
	d)	Brand Elimination.	& Managing Brand	01	
	e)	Brand Revitalization.	Equity, 2 nd Ed. PHI.	01	
	f)	CASE STUDY	*U.C. Mathur- Brand	01	
		TOTAL LECTURES		07	

IV	a) Managing Brands. b) Brand Extensions. c) Financial Aspects of Brands. d) CASE STUDY.		*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2 nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2 nd Edition, 2008	01 01 02 01 05	
V	a) Branding in different sectors. b) Retailers. c) Industrial. d) Services. e) High-tech products. CASE STUDY		*Keller-Strategic Brand Management, Building, Measuring & Managing Brand Equity, 2 nd Ed. PHI. *U.C. Mathur- Brand Management, Text and Cases, Macmillan Ltd. *Harsh Verma – Brand Management – Excel Books 2 nd 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
P.R.M.I.T. & R. Badnera

Department of Management Studies

Semester -III (Session 2018-2019)

Subject: Consumer Behaviour (MBA/3203/M)

SUBJECT TEACHER: Prof. A. V. Deshmukh

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

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


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 Department of Management Studies
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Department of Management Studies

Semester –III (Session 2018-19)

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

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


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Department of Management Studies
Semester –III (Session 2018-2019)
Subject: Sales and Distribution Management
SUBJECT TEACHER: Prof. S.R. Deshmukh

Unit No.	Topic No.	Topic with detail course outlines	Text and References	No. of Periods Allotted	Remark
I	1	Introduction to Sales Management & Sales Organization	"Sales Management" by Pradip Kumar Malik	1	Total Lectures for Unit I: 8
	2	Determining Sales Related Marketing Policies - I		1	
	3	Determining Sales Related Marketing Policies - II		1	
	4	Sales Functions and Policies		1	
	5	International Sales Management		1	
	6	Personal Selling- I		1	
	7	Personal Selling- II		1	
	8	Case Study		1	
II	1	Sales Planning	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit II: 6
	2	Sales Budgets - Estimating Market Potential		1	
	3	Forecasting Sales		1	
	4	Sales Quotes		1	
	5	Sales and Cost Analysis		1	
	6	Case Study		1	
III	1	Sales Force Management; Hiring and Training Sales Personnel	"Sales Management" by Pradip Kumar Malik and Chunawala S.A.	1	Total Lectures for Unit III: 8
	2	Time and Territory Management		1	
	3	Compensating Sales Personnel		1	
	4	Motivating Sales Force - I		1	
	5	Motivating Sales Force - II		1	
	6	Leading the Sales Force		1	
	7	Evaluating Sales Force Performance		1	
	8	Case Study		1	
IV	1	Marketing Logistics; Distribution as Marketing Mix Element	"Distribution Management" by Tapan K Panda	1	Total Lectures for Unit IV: 7
	2	Distribution Resource Planning		1	
	3	Marketing Channel Integration		1	
	4	Channel Management; Nature of Marketing Channels		1	
	5	Evaluating Channel Performance		1	
	6	Tele Marketing and Web Marketing		1	

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

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

Department of Management Studies

Odd-Semester – III (Session 2018-19)-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	Introduction to syllabus & Importance of subject	“Financial Derivatives” by S.Chand	1	
	2	Financial Derivatives- Introduction, Participants, its products, Feature.		2	
	3	History of Derivative Market		1	
	4	Myth about derivative market & its regulation in India		2	
		Total		06	
II	1.	Forward Contract-Concept, & meaning	“Financial Derivatives” by S.Chand	1	
	2.	Mechanism of Forward contract		2	
	3.	Concept of pricing of forwards		2	
	4.	Hedging in forward Contracts		2	
		Total		07	
III	1.	Future Contract-Introduction, Concept	“Futures & Options” by Gardener	1	
	2.	Mechanism of Future Contract		2	
	3.	Types of Future-Pricing & Hedging		2	
	4.	Types o Future- Stock Index future		2	
		Total		07	
IV	1.	Options-Concept & Meaning	“Futures & Options” by Gardener	2	
		Types of options			
	2.	Pricing of Options		2	
	3.	Black & Scholes		1	
		Binomial Model			
		Trading strategies involving options		2	
		Total		07	
V	1.	Swaps-Concept & meaning	“Financial Derivatives” by S.Chand	1	
	2.	Mechanism of Interest rate swaps		2	
	3.	Mechanism of currency swaps		2	
	4.	Valuation of interest rate swaps		2	
	5.	Valuation of currency swaps		2	
		Total		09	36

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

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

Department of Management Studies

Semester - IV (A.Y. 2018-2019)

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 Decision Analysis	Fundamentals of Investments, by William F, Alexander, Gordon, J. and Sharpe, Englewood Cliffs,New Jersey.,Prentice Hall Inc.,3rd ed., 2003	1
2		Ratio Analysis		1
3		Ratio Analysis -2		1
4	1.3	Fund Flow Analysis		1
5		Fund Flow Analysis -2		1
6		Fund Flow Analysis -3		1
7	1.4	Cash Flow Analysis		1
8		Cash Flow Analysis -2		1
9		Revision - Unit 01		2
10	2.1	Capital Expenditure	Financial Management by Prasanna Chandra,McGraw Hill Education, Ninth edition	2
11	2.2	Capital Expenditure - Risk Decisions		2
12		Capital Expenditure - Risk Decisions		2
13	2.3 & 2.4	Cvp Analysis		2
14		Cvp Analysis		2
15		Cvp Analysis		2
16		Revision Unit-2		2
17	3.2	Leasing Vs. Buying	Financial Management and Policy by Van Horne James & Dr. Sanjay Dhamija, Pearson Education India; 12 edition (2011)	3
18		Leasing Vs. Buying		3
19	3.3	Replacement Decisions		3
20		Replacement Decisions		3
21	3.5	Sequencing Decisions		3
22		Sequencing Decisions		3
23		Revision Unit - 3		3
24	4.1	Business Failure And Reorganisation	Practical Cost Accounting written by Khanna B.S. published	4
25	4.2	Merger / Acquisitions		4

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

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

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

Lesson Plan
Subject: Foreign Exchange Markets
Semester –IV (Session 2018-2019)
Subject Teacher: Prof. G.D. Pachaghare

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


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

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

Semester – (Session 2018-2019)

Subject: Insurance Management

SUBJECT TEACHER: Prof. K. S. Bijawe

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

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

Department of Management Studies

Semester –IV (Session 2018-2019)

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

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


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

Department of Management Studies(M.B.A.)
Semester – (Session 2018-2019)
Subject: Security Analysis & Portfolio Management
SUBJECT TEACHER: Prof. K. S. Bijawe

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


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Department of Management Studies					
Semester -IV (Session 2018-2019)					
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	<i>Strategic Management-Francis Cherunilam</i>	1	Total =07
	2	Environmental Analysis-I		1	
	3	Environmental Analysis-II		1	
	4	Competitive Analysis		1	
	5	In Internal corporate Analysis-I		1	
	6	Internal corporate Analysis-II		1	
	7	Case Study		1	
III	1	Strategic Analysis	<i>Strategic Management-John Pearce- TMH</i>	1	Total =07
	2	Cost Analysis		1	
	3	Portfolio Analysis		1	
	4	Display Matrices		1	
	5	Operating and Financial Analysis-I		1	
	6	Operating and Financial Analysis-II		1	
	7	Case Study		1	
IV	1	Strategic Alternatives	Corporate Strategy and Business Policy - Azhar Kazmi, TMH Publications	1	Total =07
	2	Diversification		1	
	3	Mergers and Acquisition-I		1	
	4	Mergers and Acquisition-II		1	
	5	Turn-Around Management		1	
	6	Turn-Around Management		1	
	7	Case Study		1	
V	1	Strategic Choice	<i>Strategic Management-John Pearce- TMH</i>	1	Total =07
	2	Implementation of Strategy-I		1	
	3	Implementation of Strategy-II		1	
	4	Evaluation of Strategy		1	
	5	Control Of Strategy-I		1	
	6	Control Of Strategy-II		1	
	7	Case Study		1	


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Department of Management Studies

Semester -IV (Session 2018-2019)

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

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

MBA Teaching Plan 2018-19 Winter Session (Even SEM) Sem-IV Subject : HBWP (MBA/4301/OB)

SUBJECT TEACHER- PROF. Y. R. VAIDYA

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

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

	2	Learning Behaviour-Concept, Models and its applications. sources, types, aspects of conflicts	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications	1	
	3	Conflict and Conflict Resolution-Definition,	Management & Organistional Behaviour- Dr JS Reddy Himalaya Publications	1	
	4	Conflict resolution and management,	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	5	Negotiation strategies, Counseling, Participative management.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	6	Case Study	When CEO of a Family Firm Gets into a Role Conflict	1	
5	1	Organizational culture and climate-Organizational culture its definition, types, functions, managing culture.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	2	
	2	Creating Sustaining and changing culture.	Orgational Behaviour - K Ashwatthapa Himalaya Publications	1	
	3	Organizational Climate- Concept, 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 2018-19 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 2018-2019)
Subject: Knowledge Management
SUBJECT TEACHER: Prof. P. A. Kalmegh

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

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Department of Management Studies Semester –IV (Session 2018-2019)

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	


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Department of Management Studies

Semester -III (Session 2018-2019)

Subject: Organizational Development and intervention strategies

Subject Teacher: Miss. M. M. Nistane

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

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


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

Department of Management Studies
Semester –IV (Session 2018-2019)
Subject: International Marketing Environment
SUBJECT TEACHER: Prof. S. B. Diwan

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

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Department of Management Studies
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Department of Management Studies Semester –II (Session 2018-2019)

Teaching Plan

Subject: Marketing for Non-Profit Organisations and Social Services

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
IV	1	Beneficiary contact programme	Kotler Phillip, Roberto Eduardo L; Social Marketing	2	
	2	Use of Print & electronics media in mass communication		1	
	3	Diffusion of Innovative Ideas		1	
	4	Marketing Tools		2	
		Distribution and Delivery Strategy for NPO's and Social Services		1	
	5	Case Study		1	
		Total Lectures		8	
V	1	Marketing Strategies for Social Services & NPO & CSR	Research Methodology- C. R. Kothari; Gupta S.P. Statistical Methods	2	
	2	Review and Monitoring of Marketing Strategies of socially relevant Programme		1	
	6	Case Study		1	
		Total Lectures		4	

12


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**MBA Teaching Plan 2018-19 Winter Session (Even SEM) SEM-IV Subject :
IHRM (MBA/4306/OB)**

PROF. Y. R. VAIDYA

Unit No	Sr. No.	Topic No	Topic with detail course outlines	
1	1	Scope & Application of Marketing in NPO & SS	1	
	2	Hospital ,Police Public services,etc	1	
	3	Health & Family Welfare	1	
	4	Adult Literacy Programme	1	
	5	Environment Protection	1	
	6	Social Forestry	1	
	7	Case Problem	1	
	8	Case Study	1	
2	9	Setting Marketing Objectives	2	
	10	Analysis of Internal & External Environment	2	
	11	Analyzing Internal & External Environment-2	1	
	12	Case Problem	1	
	13	Case Study	1	
3	14	Market Segmentation	1	
	15	Customer Targetting	1	
	16	Marketing Mix Strategies	2	
	17	Product-Service Life Cycle	1	
	18	Case Problem	1	
	19	Case Study	1	

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

Department of Management Studies

Semester -IV (Session 2018-2019)

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

SUBJECT TEACHER: Prof. A. V. Deshmukh

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

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


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Department of Management Studies

Semester –IV (Session 2018-2019)

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	Strategies 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 Strategies 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 2018-2019)
Subject Teacher: Prof. G.D. Pachaghare

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

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Department of Management Studies
Semester –III (Session 2018-2019)
Subject: Sales Promotion Management
Subject Teacher: Miss. Pratiksha A. Kalmegh

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

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Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd Semester AY: 2018-2019) Summer 2019
Session/Teaching Plan

Name of Faculty: Prof. Nilima D. Bobade
Subject Name: Data Structure and Algorithms


Year: FYMCA
Sem: II

Section: A/B/DSE
Subject Code:

2MCA1

Sr.N	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	
4		Complexity of algorithms, Subalgorithms. String		Week 4	1	
5		processing: storing strings, character data type,			2	
6		string operations, word processing,			3	
7		first pattern matching algorithm			4	
8		second pattern matching algorithms			1	
9		Unit II		Linear arrays and their representation in memory,	February	Week 5
10	inserting operations,		3,4			
11	deleting operations,		Week 1	1		
12	Bubble sort,		Week 2	1		
13	Linear search and Binary search algorithms.			2,3		
14	Multidimensional arrays, Pointer arrays.			4		
15	Record structures and their memory representation	5				
16	.Matrices and sparse matrices	Week 3	1			
17	Linked lists and their representation in memory,		2			
18	traversing a linked list,		3			
19	searching a linked list.	Week 4	4,5			
20	Memory allocation & garbage collection.		1			
21	Insertion Operations		2			
22	deletion operations on linked lists.		1,2			
23	Header linked lists, Two-way linked lists.		Week 5	3		
24	Unit III	Stacks and their array representation.	February	Week 4	4	
25		Push & Pop operation			Week 1	1
26		Arithmetic expressions: Polish notation.			Week 2	1
27	Evaluation of expression	2,3				

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


 N.D. Bobade
 Faculty Incharge
 3/12/2018

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Application
 (Even Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Prof. A. J. Pimprikar Year: FYMCA Section: _____

Subject Name: Object Oriented Programming Sem: II Subject Code 2MCA2

Sr. No.	Unit No.	Topics to be Covered	Month	Week	Execution Day
1	UNIT I	Introduction, Software development	January	Week2	1
2		Life-cycle approach			2
3		Software requirement specifications			4
4		Algorithms, VB.Net project,			5
5		Designing objects, Classes & Applications		Week4	1
6		Object Relationships			2
7		Object Class design examples			4
8		Class code in VB.Net			5
9	UNIT II	VB Net language, CLR, Variables, Expressions, Statements	February	Week5	1
10		Blocks, Structured Variables & Enumerations. Classes			2
11		Object Orientation & Variables			4
12		Control Structures,		Week1	5
13		Selection Structures		Week2	1
14		Repetitions			2
15		Subs, functions & parameters			4
16	Errors & Exception Handling, Scope	5			
17	UNIT III	Data & object structures	February	Week3	1
18		Organizing the data, Other data structures			2
19		Collections			4
20		Inheritance in VB, Code inheritance		5	
21		Interface inheritance		Week4	1
22		Inheriting the data structures			4
23	Visual inheritance	5			

24		Polymorphism			1
25	UNIT IV	Winform applications : Structure of application		Week5	2
26		Winform basics			4
27		User interface code & the form designer			Week1
28		Tools for creating a user interface		Week2	2
29		Dialog boxes & the other user interface options			4
30		Other form styles			5
31		Delegates and Event Handlers		Week3	2
32		Visual Inheritance			4
33		Windows controls,			5
34	UNIT V	Accessing controls		Week4	1
35		Command control,			2
36		Simple input controls			5
37		list controls		Week5	1
38		manipulating the controls at runtime			2
39		Graphics in Winform programs			4
40		Introduction to object modeling			5
41		Object modeling : Application structure		Week1	1
42		Real worlds object modeling with object relationships			2
43	Software Patterns, Storing application data.		4		
44	UNIT VI	Computer files, File storage, Windows registry			5
45		structured data, Serialization, Databases in Visual Basic		Week2	1
46		.Net Object oriented database systems			2
47		.Net support for relational database systems			4
48		Data access in a three tiered system, Reading & Writing Data			5
49		Revision 1		Week3	6
50		Revision 2		Week4	1

March

April

Prof. Ram Meghe Institute of Technology & Research Badnera
 Department of Master in Computer Application
 (Odd/Even Semester AY: 2018-2019)
 Session/Teaching Plan+Execution

Name of Faculty: Prof. D. S. Deshmukh
 Subject Name: System Analysis And Design

Year: I Sem: II
 Subject Code: 2MCA3

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

35	UNIT NO-V	Identifying & forecasting cost/benefit	March	II	DAY 2
36		comparing cost			DAY 3
37		systems proposals			DAY 4
38		Writing systems proposals			DAY 1
39		software needs		III	DAY 2
40		Identifying benefit			DAY 3
41		Presenting systems proposals			DAY 1
42		Principles of Delivery		IV	DAY 2
43		Output Design Objectives			DAY 3
44		Designing printed output			DAY 4
45		Input Design objectives			DAY 1
46		UNIT NO-VI		Form Design	April
47	Screen Design for input		DAY 3		
48	Introduction to OOSAD		DAY 4		
49	Object-Oriented Analysis		DAY 1		
50	Screen output		II	DAY 2	
51	Managing analysis & design activities.			DAY 3	

D.S. Deshmukh

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Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Applications
(Odd/Even Semester AY: 2018-2019)
Session/Teaching Plan+Execution

Name of Faculty: Prof. V. A. Sinha		Year: I Sem: II					
Subject Name: Data Communication - COM ⁿ		Subject Code: 2MCA4					
Sr.No	Unit No.	Topics to be Covered	Month	Week	Execution	Date	
1	I	Data communication concepts	JANUARY	II	Day 1		
2		Uses and applications.			Day 2		
3		Telephone: Voice communication networks			Day 3		
4		Switches, PBX cellular technologies			Day 4		
5		Fax, IVR, Voice Mail			Day 1		
6	II	Hardware: network architecture		Day 2	III	Day 3	
7		Hardware: network architecture		Day 4			
8		Hosts, Clients, Circuits, Special purpose Communication Devices		Day 1			
9		Special purpose Communication Devices ...		Day 2		IV	Day 3
10		FEP, Multiplexers,		Day 4			
11		Protocol Converters		Day 1			
12		Line adapters		Day 2	V		Day 3
13		III	Data transmission: Coding,	Day 4			
14	Transmission modes		Day 1	I	Day 2		
15	Band width, Modulation		Day 1		II	Day 2	
16	Modem: Types and Standards.		Day 3				
17	PAM & PCM techniques		Day 4				
18	Connector cables	Day 1	February	III	Day 2		
19	IV	OSI model, MAC protocol controlled & contention-based			Day 3		
20		Error control in networks			Day 4		
21		Data link Protocols: asynchronous & synchronous			Day 1		
22		Transmission efficiency		Day 2	IV	Day 3	
23	Carrier Sense Multiple Access / CD	Day 4					
24	Point-to -Point Protocol details.	Day 1		V		Day 2	
25	V	Network Layer: Topologies	Day 3				
26		Network Types	Day 4				
27		Network routing, Network Standards	Day 1	I	Day 2		
28		Network protocols	Day 3				
29		Network routing	Day 4	II	Day 1		
30		TCP/IP, IPX/SPX, X.25	Day 2				
31	X.25 ,GOSIP protocols	Day 3	III		Day 4		
32	network protocols	Day 1					
33	LANs: uses and types.	Day 2					
34	VI	Network Management: Basic principles infrastructure for network management		Day 3	IV	Day 4	
35		LAN components	Day 1	I		Day 2	
36		Ethernet: topology,	Day 3				
37		MAC, types	Day 4				
38		Token rings: topology	Day 1	II	Day 2		
39		MAC, types, other types of LANs	Day 3				
40		MAP (IEEE 802.4).	Day 4				
41		Arc Net, Apple Talk	Day 1	III	Day 2		
42		LAN performance improvement,	Day 3				
43		Selecting a LAN	Day 4				
44	Network Securities	Day 1	April		Day 2		
45	Network Standards , Policies	Day 3					
46	Network Setup and configurations	Day 4					
47							
48							

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	Day
1	UNIT NO-I	Introduction : Nature of business	January	II	
2		Objectives			
3		Components of business			
4		Environment of business system,		III	
5		business system and its sub-systems			
6		forms of legal ownership : soe proprietorship, partnership organisation			
7		company form of organisation			
8		forms of legal ownership : soe proprietorship, ,		IV	
9		partnership organisation			
10		company form of organisation			
11		Social responsibilities of business			
12	UNIT NO-II	Company Management		IV	
13		Structure of company management			
14		patterns and problems of company management			
15		company meetings & resolutions		I	
16		company office			
17		its organization and management			
18		Business combinations			
19	Government & business				
20	UNIT III	Production functions :		I	
21		Plant location			

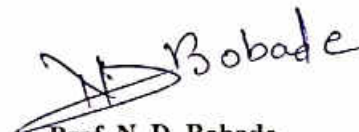
22	UNIT NO-I	factory planning,	February	I	
23		production control and cost control			
24		Budgets and budgetary control		III	
25		purchasing and storekeeping			
26	Personnel functions				
27	Personnel management	IV			
28	role of personnel manager				
29	job evaluation				
30	merit rating.				
31	Industrial relations				
32	UNIT NO-IV	Trade Unionism	March	V	
33		employee remunerations		I	
34		wage payments			
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	Marketing functions	IV			
43	Marketing & its function				
44	transport				
45	selling or distributions of goods				
46	channels of distribution				
47	UNIT NO-VI	salesmanship	V		
48		advertising and promotion			
49		salesmanship, advertising and promotion			

Practical List

Subject : 2MCAI DATA STRUCTURES & ALGORITHMS

Session: Summer 2019

Sr. No.	Name of Practical	Date	Sign of Faculty	Sign of HOD
1	Write a program in C++ for inserting and deleting element from array.	15/01/2019		
2	Write a program in C++ for Linear Search and Binary Search.	22/01/2019		
3	Write a program in C++ to check whether the C++ compiler stores 2 dimensional array elements in Row Major or Column major format.	29/01/2019		
4	Write a program in C++ to implement the first pattern matching Algorithm.	05/02/2019		
5	Write a program in C++ for implementing a linked list using pointers.	12/02/2019		
6	Write a program in C++ for implementing a stack using linked list and pointers.	26/02/2019		
7	Write a program in C++ for evaluation of a postfix expression.	05/03/2019		
8	Write a recursive program in C++ a. to generate nth number of fibinacci series b. to find the factorial of a number.	12/03/2019		
9	Write a recursive program in C++ for solving the Tower of Hanoi Problem.	12/03/2019		
10	Write a program in C++ for implementing a queue using array.	19/03/2019		
11	Write a program for preorder traversal using pointers, linked list and recursion.	26/03/2019		
12	Write a program in C++ for insertion sort .	09/04/2019		
13	Write a program in C++ for Selection sort .	09/04/2019		


Prof. N. D. Bobade
Faculty Incharge

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Prof. Ram Meghe Institute of Technology & Research, Badnera

P. G. Department of Computer Application

Practical List

Subject:- 2MCA7 - Object Oriented Programming

Session: Summer 2019

Sr. No.	Name of Practical	Dates for Batches	Sign of Faculty	Sign of HOD
		BI		
1	Write a program for display Account Balance by using class & object.	10/01/2019		
2	Write a program for display student information using constructor in a class.	24/01/2019		
3	Write a program for using different types of exception handling in console application.	31/01/2019		
4	Write a program for inheritance to show reusability of code from base class to derived class.	07/02/2019		
5	Write a program for creating interface of arithmetic operation by using Sub & Function in console application.	14/02/2019		
6	Write a program for add shopping items into collection by using capacity, sort & count property in winform application.	21/02/2019		
7	Write a program to create winform application using visual inheritance & configure their properties & add code to new winform application.	28/02/2019		
8	Write a program to print rectangle & ellipse using graphics class in winform application.	07/03/2019		
9	Write a program for simple calculator using winform application.	14/03/2019		
10	Write a program show the use of check box & option button to select multiple options.	28/03/2019		
11	Write a program for database application (ADO.Net) (Create database application on visual basic of an employee.)	4/4/2018		






Practical Incharge
A. J. Pimprikar


Sem year 1

2MCA 3 System Analysis & Design Lab.

Practical List

Sem - II, Summer - 2019

Sr. No	Name Of Practical	Date	Sign of Faculty	Sign of HOD
1	To Study different SDLC phases(Requirement, Analysis, Feasibility) and introduction to Visible Analyst case tools	1/14/2018		
2	Create and print data flow diagram for the given problem and modify Diagram 0 for the(Microcomputer)system.	1/21/2018		
3	Create and print context level diagram(Diagram 0) & 1 for the given problem.	1/28/2018		
4	Create and print the Entity-Relationship diagram for the (Microcomputer)system	2/4/2018		
5	Create the gathering Information PERT Diagram and list all paths and calculat the critical path for the given problem	2/11/2018		
6	Create the Data Dictionary using XML.	2/18/2018		
7	Create the Decision tables for problem analysis for the given problem	2/25/2018		
7	Analyse the given Interview,discuss what type of structure each interview had.	3/4/2018		
8	Write Structured English statements for the given structure.	3/18/2018		
9	Use Visible Analyst to view the Microcomputer Master file Data Store and print master file record using the report feature.	3/25/2018		
10	Create the Decision Tree for problem analysis for the particular problem.	4/1/2018		

D. S. Dashmureh


Prof. Ram Meghe Institute of Technology & Research Badnera
P.G Department of Computer Applications(MCA)
(Odd/Even Semester AY: 2018-2019)
Session/Teaching Plan

Name of Faculty: Prof.S.A.Ghogare
Subject Name: Computer Organization

Year:W-2018
Sem: I

Subject Code: IMCA1

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

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

September

		1
		1
	Week 5	2
		3
		4
	Week 1	1
		1
		2
	Week 2	3
		4
		5
		1
		2
	Week 3	3
		4
		1
	Week 4	2
		3
		4
	Week 5	1
		2

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

October

Week 1

Week 2

Week 3

Week 4

58	Revision Unit no 6		Week 5	1
59	All unit revision	NOVEMBER	Week 1	1

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Ms.Snehalata D. Ulhe
Subject Name: Problem Solving Using C++

Year: MCA-I
Sem: I

Section: A/B/DSE
Subject Code : **1MCA2**

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

25	Unit IV	Abstract classes	October	Week3	4
26		Virtual Base Class & friend Function			5
27		Static Function			1
28		This Pointer			2
29		Assignment & Copy initialization			3
30		Dynamic Type Information			4
31		Dynamic Type Information			1
32	Unit V	Stream Classes,Stream Error		Week4	2
33		Disk file I/O with Stream, File Pointer			3
34		Error Handling in FILE I/O			4
35		File I/O with Member Function			1
36		Overloading extraction & insertion operations			2
37		Memory as Stream object			3
38		Command Line argument, Multifile Program			4
39	Unit VI	Function Template, Class Template	Week5	5	
40		Exceptions		Week1	1
41		STL		Week2	1
42		Algorithm			2
43		Sequential Containers			3
44		Iterates			4
45		Function Object		Week3	1
46		Function Object			2

Prof. Ram Meghe Institute of Technology & Research Badnera

Department of Master in Computer Application

(Odd Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Prof. D. R. Bandbuche

Year: MCA 1st Year Sem I

Subject Name: Computer Oriented Statistical Methods(Theory)

Subject Code: IMCA3

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	Introduction, Definitions : Websters, secrists, Gronton and Cowden definitions of statistics	August	Week 2	1
2		Importance of statistics			2
3		Scope of statistics : Industry, Economy, Planning,			3
4		medical science, Computer Science etc.			4
5		Limitations of statistics			5
6		Frequency distribution, cumulative frequency distribution		Week 3	1
7		Graphical representation of frequency distribution			2
8		Relative frequency distribution. Graphical representation of frequency distribution			3
9	Unit II	Concept of central tendency, criteria for good measures of central tendency.		Week 4	1
10		G.M., H.M. for grouped & ungrouped data with its merits & demerits			2
11		Partition values : quartiles, deciles, percentiles Numerical problems on central tendency			3
12		Dispersion criteria for good measures of dispersion.			4
13		Numerical problems on quartile deviation		Week 5	1
14		Numerical problems on mean deviation			2
15		Numerical problems on Standard Deviation.			3
16		variance, co-efficient of Dispersion,	4		
17	coefficient of variation	Week 1	1		
18	Unit III	Concept of central tendency, criteria for good measures of central tendency.	Week 2	1	
19		Definition of Skewness		2	
20		Raw & Central moments : for grouped & ungrouped data		3	
21		first four moments		4	
22		their relationshipsRaw & Central moments		5	
23		Pearson's co-efficient of Skewness	Week 3	1	
24		Bowley's co-efficient of Skewness		2	
25		Kurtosis		3	
26	Numerical problems on moments, co-efficient of skenmen & co-efficient of Kurtosis.	4			

27	Unit IV	co-efficient at Kurtosis based on moments	Septe	Week 4	5
28		Correlation, Concept of correlation,			1
29		correlation for bivariate data.			2
30		scatter diagram positive, negative & no correlation			3
31		Karl pearson's co-efficient of correlation			4
32		Numerical problems on Karl pearson's			5
33		limits Karl pearson's co-efficient			1
34		limits at r and interpretation of r			2
35		Spearman's Rank correlation			3
36		Numerical problems on Rank correlation			4
37		Numerical problems on Correlation			5
38		Numerical problems on karl pearsons & spearman's rank correlation co-efficient			1
39		Repeated rank correlation.			2
40		Assumption on Karl pearson's			3
41	Unit V	Concept of regression	October	Week 1	4
42		linear regression			1
43		Derivation of regression lines by method of least squares.			2
44		Linear and Non-linear regression			3
45		Numerical problem on least squares			4
46		Fitting of second degree curve & curve $y=abx$			5
47		Multiple correlation and its Numerical problems			1
48		partial correlation and its Numerical problems			2
49		Equation of Non-linear regression			3
50		Numerical problems on linear regression			4
51		Numerical problems on non-linear regression			5
52	Unit VI	Time series Definition	November	Week 4	1
53		Time series & uses of time series			2
54		Components of Time series,			3
55		Additive & multiplicative models			4
56		Methods of estimating trend			5
57		Graphical method			1
58		moving average method			2
59		Least square methods			3
60		Semi-average method			1
61		Numerical problems on Time Series.			2
62	Numerical problems on Time Series.	3			

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
Subject Name: Principles of Management

Year: MCA-I
Sem: I

Section:
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	Organization planning	2			
9	Organization design and development	3			
10	Organization development	4			
11	Unit II	Production resources		Week5	1
12		Production planning			2
13		Types of production system			3
14		Production systems, Production control.		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	Product development schemes			3	
21	Material planning		Week4	1	
22	Material control			2	
23	Inventory control technique			3	
24	MIS meaning and objectives			4	
		Types of data, methods of data collection			

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

D. S. Ashmulek


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: Prof. S.R.Deshmukh
Subject Name: Communication Skills

Year: MCA-I
Sem: I

Section: A/B/DSE
Subject Code: 1MCA5

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day	
1	Unit I	Need of Communication Skills	August	Week2	1	
2		Comprehension - word study :- Synonym, antonym, meanings, matching words, adjectives, adverbs, prefix and suffix,			2	
3					Correct forms of commonly misspelled words, understanding of the given passage.	3
4					Skimming for general ideas, Contextual vocabulary, Error detection	4
5		Note making and Location of argument from text		Week3	1	
6		Ability to answer inferential			2	
7		Factual and personal response			1	
8	Unit II	Simple and compound sentences, types of conjunctions		Week4	2	
9		Singular and plural, tenses and their effect on verb forms.			3	
10		Use of - not only - but also, if clause, since, may, can, could, would, too etc			4	
11		Active and passive forms			1	
12		Negative and interrogative		Week5	2	
13		Punctuation and capitalization			3	
14		Punctuation and capitalization			Week1	1
15	Unit III	Importance of communication, its process, model of communication its components & barriers	SEPTEMBER	Week2	1	
16		Types of written communication, organization of a text (Titles, summaries, headings, sequencing, signaling, cueing etc.)			2	
17		Types of written communication, organization of a text			3	

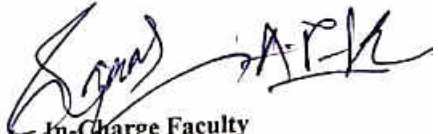
18		Types of written communication, organization of a text	SEPTEMBER	Week3	1
19		Important text factors (length of paragraph, sentences, words, clarification and text difficulty)			2
20		Important text factors (length of paragraph, sentences, words, clarification and text difficulty)			3
21		Important text factors (length of paragraph, sentences, words, clarification and text difficulty)		Week4	1
22		Important text factors (length of paragraph, sentences, words, clarification and text difficulty)			2
23		Evaluation of written communication for its effectively and subject content			3
24		Evaluation of written communication for its effectively and subject content			4
25		Unit IV		Business correspondence, formal reports	Week1
26	Technical proposals, research papers and articles		2		
27	Advertising and graphics		3		
28	Format for day to- day written communication like applications, notices, minutes, quotations, orders, enquiries etc		4		
29	Letter writing		Week2	1	
30	Preparation of Curriculum – Vitae			2	
31	Composing messages telegrams, telex, fax and e-mail Writing memos, agendas and notices of meetings,			Week3	1
32	Important objectives of interpersonal skills, Verbal communication, its significance	2			
33	Unit V	Face to face communications, group discussion and personal interviews	Week4	1	
34		Voice modulation and logical argument, Comprehension of text at normal reading speed		2	
35		Listening skill and timely response, Participation and contribution to discussion		3	
36		Command over language Formal and informal style of communication		4	
37		Body language	Week 5	1	
		October			

Practical List

Subject : 1 MCA 6 - PROBLEM SOLVING USING C++

Session: Winter 2018

Sr. No.	Name of Practical	Date	Sign of Faculty	Sign of HOD
		Batch B1		
1	WAP in C++ to find the area of rectangle using following types of functions i) With return type and arguments ii) Without return type and arguments iii) With return type and no arguments iv) Without return type and no arguments	23/8/18 28/8/18 6/9/18	APK	
2	WAP in C++ to create a class which input student information and displays it using pointer to objects. (Using Pointer)	27/9/18	APK	
3	WAP in C++ to Count the Number of Object in existence.	27/9/18	APK	
4	WAP in C++ to Count Total Words in Sentence using class.	2/10/18	APK	
5	WAP in C++ to create a class balance with data members name and amount. Create an array of objects of class balance. Make use of dynamic memory allocation and deallocation operators. (New & Delete Operator)	4/10/18	APK	
6	WAP in C++ to overload '+' Operator to add two time object. (Operator Overloading)	11/10/18	APK	
7	WAP in C++ to create a class student with Constructor Overloading. (Constructor)	11/10/18	APK	
8	WAP in C++ to write/read objects to/from a file. (File Handling)	24/10/18	APK	
9	WAP in C++ to implement generic swap function. (Function Templates)	24/10/18	APK	
10	WAP in C++ to handle different types of exception. (Exception Handling)	11/11/18	APK	
11	Write a program in C++ to illustrating the use of Virtual Functions in Class. (Virtual Function)	11/11/18	APK	











In-Charge Faculty
Prof. S. V. Joshi

Subject: IMCA 8 Computer Oriented Statistical Methods
Practical Execution Plan
Session: Winter2018

Sr.No	Name of Practical	Date Batch B1	Sign Of Faculty	Sign of Head
1.a	Write a program to find arithmetic mean for simple series.	13-8-18	D	
1.b	Write a program to find arithmetic mean for discrete series.	20-8-18	D	
1.c	Write a program to find arithmetic mean for Continuous series.	21-8-18	D	
2	Write a program to find median for given series.	24-9-18	D	
3	Write a program to find mode for simple series	24-9-18	D	
4	Write a program to find mode for discrete series.	21-8-18	D	
5	Write a program to find mode for continuous series.	15-10-18	D	
6	Write a program to find quartile for discrete series.	15-10-18	D	
7	Write a program to find range and coefficient of range for discrete series and continuous series.	22-10-18	D	
8	Write a program to find mean deviation for discrete series and continuous series.	29-10-18	D	
9	Write a program to KARL PEARSON'S AND BOWLEY'S COEFFICIENT of skewness for given series	29-10-18	D	

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

Name of Faculty : Prof. S.R.Deshmukh Class: MCA-I Sem: I Subject
Name : Communication Skills Subject Code : IMCA5

Sr.No	Name of Practical	Batch 1			
		Scheduled on	Conducted on	Sign	HoD Remarks
1	Comprehension	7/8/2018	7/8/2018		
2	Extempore	14/8/2018	14/8/2018		
3	Vocabulary Building	21/8/2018	21/8/2018		
4	Cover Letter	28/8/2018	4/9/2018		
5	Resume Writing	4/9/2018	18/9/2018		
6	Error Detection	11/9/2018	25/9/2018		
7	E-Mail Writing	18/9/2018	9/10/2018		
8	Punctuation	25/9/2018	16/10/2018		
9	Group Discussion	9/10/2018	23/10/2018		


Prof. S. R. Deshmukh

Prof. Ram Meghe Institute of Technology & Research Badnera
Department of Master in Computer Application
(Odd Semester AY: 2018-2019)

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

3 MCA 1

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject	July	Week1	1
2		Operating System Definition			1
3		OS Evolution, OS Components and Services.		Week2	2
4					3
5		Process Concept.		Week3	4
6		Process Scheduling.			1
4				Operations on Processes.	Week4
5		3			
6	Cooperating Processes.	Week5	4		
7	Inter process Communication.		1		
8		2			
9	Unit II	Threads Overview,	August	Week1	1
10		Threading Issue , Java Threads			
11		Multithreading Models.			
12	Unit II	CPU Scheduling Concepts.	August	Week2	1
13		Scheduling Criteria and Algorithms.			
14		The Critical-Section Problem.			
15		Synchronization Hardware.			
16		Semaphores, Monitors.			
17		Deadlocks-Definition & Characterization.			
18		Deadlocks Prevention.			
19	Avoidance, Detection and Recovery from Deadlock.	Week3	1		
20	Introduction of Memory Management.			Week4	2
21					
22	Paging Process, need of Segmentation .				
23	: Background, Demand Paging scheme,	Week4	1		
24	Process Creation,				
25	Page Replacement Policies,				

Sr. No	Unit No.	Topics to be Covered	Month	Week	Day,					
26		Allocation of Frames, Thrashing	August	Week5	1 2 3					
27	Unit IV	Directory Structure			September	Week1	1			
28		File-System Mounting,	Week2	1 2 3 4						
29		File Sharing & Protection.		Week3			1 2 3			
30		File-System Structure					Week4	1 2 3		
31		File-System Implementation.						Week5	1 2 3 4	
32		Directory Implementation, Allocation Methods							Week1	1 2 3
33		Free-Space Management. File Recovery								Week2
34	Unit V	Overview, I/O Hardware,			Week3	1 2 3				
35		Application I/O Interface	Week4			1 2 3 4				
36		Kernel I/O Subsystem.		Week5		1 2 3 4				
37		Transforming I/O to Hardware Operations.				Week1	1 2 3 4			
38		Disk Scheduling					Week2	1 2 3 4		
39		Disk Management						Week3	1 2 3	
40		Swap-Space Management							Week4	1 2 3
41	RAID Structure.	Week5			1 2 3					
42	Unit VI		History, Design Principles,		October					1 2 3
43			Kernel Modules,	Week2						1 2 3 4
44			Process Management,			Week3				1 2 3
45	Scheduling, Memory Management		Week4				1 2 3 4			
46	File Systems, Input and Output						Week5	1 2 3		
47	Interprocess Communication							Week1	1 2 3	
48	Network Structure IN LINUX os Security issues in Linux.	Week2							1 2 3	

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Applications
(Odd Semester AY: 2018-2019)
Session/Teaching Plan (Theory)

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

Class: MCA-II Sem: I
Subject Code: 3MCA2

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	August	III	1
10		record structures & its methods, record structures with length indicator		I	1
11		writing, representing, reading, variable length records			2
12		classes fixed length buffer			3
13		fixed text buffers and record access		II	1
14		Using classes to manipulate buffers			2
15		Sequential record access & Unix tools			3
16		Record structures.			4
17		File access & file organization		III	1
18		Abstract data models for file access			2

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

September

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

Preeti
21/07/18

Submitted by

Prof. Preeti. P. Deshmukh

P. G. Department of Computer Applications
(Odd Semester AY: 2018-2019)
Session/Teaching Plan

Name of Faculty: **Rupali Sherekar**

Subject Name: **Java Programming**

Sem: **I**

Year: **II**

Subject Code: **3MCA3**

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

37	Unit IV	File Outputstream,	September	2	5
38		File Outputstream,			1
39		Data Input stream, Data Output stream,		3	2
40		PrintWriter, .			1
41		The Applet class and its various methods			2
42		The Applet class and its various methods			3
43		The Applet tag		4	4
44		Passing parameters to applets.			1
45		Passing parameters to applets.			2
46		Applet Examples			3
47	transient & volatile modifiers, using instanceof, using assert		4		
48	Unit V	Event handling: Event handling mechanisms.	October	5	5
49		Delegation Event model		6	1
50		Delegation Event model			1
51		Event sources & Event Listeners,			2
52		Event sources & Event Listeners			3
53		EventClasses, Event Listener Interfaces		1	4
54		Using delegation Event model: Handling mouse events,			1
55		Using delegation Event model: Handling mouse events,			2
56		handling Keyboard events			3
57		handling Keyboard events			4
58	Adapter classes	2	5		
59	Inner classes, anonymous inner classes.		1		
60	Unit VI	Introduction to AWT	November		2
61		AWT classes		3	3
62		Window fundamentals			1
63		working with frame windows, Button			2
64		TextField, Label			3
65		Working with Graphics		4	4
66		Working with colors			1
67		Adding and removing controls,			2
68		responding to controls			3
69		Layout managers		5	3
			1	1	

Suyali

Prof. Ram Meghe Institute of Technology & Research, Badnera
P.G. Department of Computer Applications
(Odd Semester AY: 2018-19)

Session/Teaching Plan

Name of Faculty: Prof. S.V. Joshi
Subject Name: Computer Networks

Year: SYMCA
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 2018	Week1	1
2		Layered architecture		Week2	1
3		Internet protocol stack			2
4		Network entities & layers			3
5		Principles of Protocols			4
6		Application Layer		Week3	1
7		HTTP			2
8		FTP			3
9		SMTP		Week4	1
10		DNS protocols			2
11	Transport layer: services & principles	3			
12		multiplexing &	4		
13		demultiplexing applications	Week5	1	
14		UDP		2	
15		principles of reliable data transfer	August 2018	Week1	1
16	TCP details	2			
17	Principles of Congestion Control	Week2		3	
18	TCP congestion control			1	
19	Network layer: network service model	routing principles	Week3	2	
20				hierarchical routing	3
21		Internet Protocol (IP)		4	
22				1	
23	UNIT III	Routing in the Internet	August 2018	Week4	1
24		IPV6			2

25	ICMP Details	UNIT IV	Week5	4									
26	Link layer: Introduction			September 2018	Week 1	1							
27	Services of link layer					Week2	1						
28	LAN addresses						Week 3	2					
29	ARP Protocol							Week 4	3				
30	Address Resolution Protocol								Week 5	4			
31	Carrier Sense Multiple Access									Week 1	1		
32	CSMA/CD										Week2	1	
33	Carrier Sense Collision Detection											Week 3	2
34	Token Passing Protocol												3
35	Go-Back N Protocol	October 2018	Week 1	4									
36	Selective Repeat			Unit V	Week 2	1							
37	Point-to -Point Protocol details					Week 3	2						
38	Network security issues						Week 4	3					
39	principles of cryptography							Week 5	4				
40	authentication								Week 1	1			
41	authentication protocol									Week 2	2		
42	version of protocols										Week 3	3	
43	key distribution & certification											Week 4	4
44	integrity:												1
45	digital signatures	Unit VI	Week 2	2									
46	message digests			October 2018	Week 1	3							
47	secure e- mail					Week 2	4						
48	Network Management:						Week 3	1					
49	Basic principles							Week 4	2				
50	infrastructure for network management								Week 5	3			
51	The Internet Network management framework:									Week 1	4		
52	SMI										Week 2	1	
53	MIB SNMP details											Week 3	2
54	security and administration												3
55	ASN I	Week 4	Week 1	4									
56	Firewalls: Packet filtering and Application gateway			Week 2	1								
57	Authentication & Authorization				2								

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

(Odd Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Prof. Nilima 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	Week 1	1
2		N job Two machine problem			2
3		Cases of Tie		Week 2	1,2,3
4		Practice Problems on N job Two machine problem			4,5
5		N job three machine sequencing problem.		Week 3	1,2
6		Practice Problems on N job Three machine Problem			3,4,5.
7		Practice problem set on unit IV		Week 4	1,2
8	✓ Unit III	Introduction to transportation problem and Mathematical model	AUGUST	Week 1	1
9		North West Corner Rule Method			2
10		Practice problems On North West Corner Rule			3
11		Least Cost Method		Week 2	1
12		Practice problems On Least Cost Method			2
13		Vogel Approximation method			3
14		Practice Problems on Vogel Approximation method			4,5
15		optimizing the basic feasible solution using U-V method		Week 3	1
16		UV Method Practice Problem			2,3
17		Degeneracy in UV Method			4
18		Prohibited and Maximization Transportation Problem.		Week 4	1
19		Alternative optimal solution			2,3
20		Assignment Problem: Introduction, zero one		Week 5	4
21		Hungarian Method			1
22		Practice on Hungarian Method			2
23		Unbalanced assignment problems, Restricted assignment			3
24		Linear Programming: Introduction, concept of LP model.			4
25		development of LP model		5	
26		Conversion of general LPP into standard LPP		Week 1	1
27		Graphical method to solve LPP.			1
28		Practice on Graphical Method		Week 2	2
29	Simplex method	3			
30	Practice on Simplex method	4			

31	Practice on Simplex method	SEPTEMBER	Week 3	5	
32	Big M method,			1	
33	Practice on Big M method			2	
34	Two phase method.			3	
35	Two phase method problems			4	
36	Types of linear programming solution infeasible solution			1	
37	Alternative Optimal Solution			2,3	
38	dual simplex method			4	
39	dual simplex method			1,2	
40	Introduction to Game Theory: minimax, maximum, pure			3	
41	2X2 game			4,	
42	solution of 2xn games, mx2 games			5	
43	Dominance Principle			1	
44	Practice problems on Dominance Principle			2	
45	Brown's Algorithm	3			
46	UNIT IV	4			
47	Network scheduling Construction of network	OCTOBER	Week 1	1	
48	ET, TE, TL, SE, critical path			2	
49	Practice on CPM problem			3	
50	Introduction to PERT Network			4	
51	probability of completing events on schedule.			5	
52	Probability OR Model			Week 2	1
53	Basic probability statistical concepts				2
54	Introduction to decision theory				3
55	minimax decision procedure,				4
56	Bayes decision procedure with & without data				5
57	Bayes decision procedure with & without data	Week 3	1		
58	Regret function versus loss function		2		
59	Classification of problems		3		
60	OR mathematical modeling		4		
61	Dynamic programming		5		
62	Investment problem,	Week 4	1,2		
63	Equipment replacement problem		3		
64	Practice on Equipment replacement problem		Week 5	1	
64	Stage coach Problem			2	
			NOVEMBER	Week 1	1
				2	

N.D. Bobade
 In-Charge Faculty
 27/06/18

Prof. N.D. Bobade

PK

Prof. Ram Meghe Institute of Technology & Research, Badnera
P. G. Department of Computer Applications
Subject: (3MCA6) FILE STRUCTURES & DATA PROCESSING
Class: 2nd Year (I Semester) Session: W-2018
Practical Execution Report

Sr. No	Name of Practical	Date		Signature	HOD Remark
1	Basic input and output operations using file in C++	B1	17/7/18	<i>[Signature]</i>	
		B2	16/07/18		
		B3	19/07/18		
2	Write a C++ program to read series of names, one per line, from standard input and write these names spelled in reverse order to the standard output using I/O redirection and pipes. Repeat the exercise using an input file specified by the user instead of the standard input and using an output file specified by the user instead of the standard output.	B1	24/07	<i>[Signature]</i>	
		B2	23/07		
		B3	27/07		
3	Write a C++ program to read and write student objects with variable-length records and the fields delimited by " ". Implement pack(), unpack() methods.	B1	31/07	<i>[Signature]</i>	
		B2	30/07		
		B3	03/08.		
4	Write a C++ program to read and write student objects with variable-length records and the fields delimited by " ". Implement modify() and search() methods.	B1	06/08.	<i>[Signature]</i>	
		B2	13/08		
		B3	13/08.		
5	Write a C++ program to read and write student objects with fixed-length records using any suitable record structure. Implement pack()/insert() and search() methods.	B1	21/08, 28/08	<i>[Signature]</i>	
		B2	20/08, 27/08		
		B3	24/08, 27/08		
6	Write a C++ program to read two lists of names and then match the names in the two lists using Consequential Match based on a single loop. Output the names common to both	B1	18/09, 04/09	<i>[Signature]</i>	
		B2	24/09		
		B3	31/09, 28/09		
7	Write a program to perform merging two files and store the result in another third file.	B1	09/10	<i>[Signature]</i>	
		B2	20/09		
		B3	28/09		
8	Write a C++ program to implement simple index on primary key for a file of student objects; index of record has to be stored in another file, Implement add(), search() methods	B1	15/10	<i>[Signature]</i>	
		B2	1/10		
		B3	05/10		
9	Write a program creates a file (entered by user) and store some content (entered by user). Then display those content (if user want) on the output screen	B1	16/10	<i>[Signature]</i>	
		B2	18/10		
		B3	19/10		
10	Write a program to ENCRYPT the contents of a file.	B1	23/10	<i>[Signature]</i>	
		B2	22/10		
		B3	24/10		
11	Write a program to DECRYPT the contents of encrypted file.	B1	02/11	<i>[Signature]</i>	
		B2	02/10		
		B3	02/11		

[Signature]
In-charge Faculty
Prof. Preeti P. Deshmukh

11	Write a C++ program to implement B+ tree for a given set of integers and its operations insert (), and search (). Display the tree.	Batch-1			
		Batch-2			
		Batch-3			
12	Write a C++ program to store and retrieve student data from file using hashing. Use any collision resolution technique	Batch-1			
		Batch-2			
		Batch-3			
13	Write a C++ program to reclaim the free space resulting from the deletion of records using linked lists.	Batch-1			
		Batch-2			
		Batch-3			

Preeti
14/07/18
In-charge Faculty
Prof. Preeti P. Deshmukh

P.G. department of Computer Applications
 Practical Execution Plan for Java Programming Lab MCA Year II Sem II Winter 2018
 Faculty : Rupali Sherekar

Sr. No	Name of Program	Execution Date		
		B1	B2	B3
1	Write Java applications to print the given patterns a. 10101 b. 1 0101 2 3 2 101 3 4 5 4 3 01 4 5 6 7 6 5 4 1 5 6 7 8 9 8 7 6 5	19/07 03/08	18/07 03/08	17/07 03/08
2	WAP that predicts your fortune based on your birthdate.	10/08 26/07	10/08 25/07	10/08 24/07
3	Write a program that accepts integer input and convert the given integer number to Binary or Hexadecimal. The program should accept command line arguments too. If 0 is passed from the command line then convert the given integer number to binary and if 1 is passed from the command line then convert the given integer to hexadecimal. <u>Command Line Input:</u> 1 <u>Input:</u> 90 <u>Output:</u> 5A Here, is 1 passed from the command line and 90 is given as input to the program since command line input is 1 the given number 90 is converted to hexadecimal 5A	02/08 23/08	01/08 25/08	31/07 19/08
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 "yohoo" before each vowel	9/08 30/08	8/08 03/09	7/08 21/08
5	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(Hint: use varargs)	23/08 03/09	29/08 05/09	14/08 28/08
6	Create an abstract class Figure3d with a data member dim1 and an abstract function vol(). Create 2 classes sphere and cylinder 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= $\frac{4}{3} \pi r^3$, volume of cylinder= $\pi r^2 h$).	30/08 27/09	05/09 19/09	21/08 04/09
7	WAP in java that creates an interface figure2d with member function area(). Write two classes named "rectangle" and "triangle" that implement the above interface and display area of the figure.	06/09 04/10	19/08 26/09	28/08 17/09
8	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.	27/09 11/10	26/09 4/10	04/09 10/10
9	WAP in java that takes your birth date as input from the command line. Check if the date is valid. 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 today's date. If proper date is entered display the age.	04/10 14/10 25/10	03/10 10/10	18/09 16/10
10	WAP in java that creates two threads , sets their priorities(high and low) and shows the number of cpu cycles allotted to each thread. Make use of join() method.	11/10 30/10	10/10 30/10	25/09 23/10
11	WAP in java to display the use of a.synchronized method b.synchronized block. Run with and without synchronized keyword	25/10 30/10	13/10 30/10	09/10 30/10
12	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.	1/11 10/11	24/10 31/10	12/10 07/11
13	WAP in Java that reads and displays its own contents.	1/11	11/10	12/10
14	WAP an applet in Java that shows the location of a mouse click, drag and also the key pressed.	03/11 03/11	31/10 01/11	23/10 10/11
15	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.	03/11 10/11	03/11 03/11	30/10 03/11

Rupali

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

Practical Execution Plan

Subject : 3MCA5 Computer Oriented Optimization Techniques
Session: Winter 2018

Sr. No.	Name of Practical	Date			Sign of Faculty	Sign of HOD
		Batch B1	Batch B2	Batch B3		
1	Write a program in C++ to find optimum sequence for 2 Machine Problem.	17/07/18 18/07/18	28/8/18 30/8/18	17/07/18 18/07/18		
2	Write a program in C++ to find total elapsed time for 2 Machine Problem and Idle time of Machine M1 and M2.	5/09/18 24/09/18	05/11/18 30/10/18	5/09/2018 24/09/2018		
3	Write a program in C++ to find total elapsed time for 3 Machine Problem and Idle time of Machine M1, M2 and M3.	03/10/18	12/11/18 12/10/18	1/10/2018		
4	Write a Program in C++ to solve balanced transportation problem using NORTH WEST CORNER METHOD.	10/10/18		15/10/2018		
5	Write a program in C++ to solve 2*2 game without saddle point.	20/10/18	20/10/18	20/10/18		
6	Write a program in C++ to check saddle pt in M*N	24/10/18		22/10/18		
7	Write a program in C++ for PERT to find critical path and total duration of the project.	29/10/18	29/10/18	29/10/18		
8	Write a program in C++ for CPM to find critical path and total duration of the project.	29/10/18	29/10/18	29/10/18		
9	Write a program in C++ to find optimum decision for given loss table.	31/10/18	01/11/18	1/11/18		
10	Write a program in C++ to find optimum decision for given Profit table.	1/11/18	1/11/18	1/11/18		
11	Write a program in C++ to obtain regret table from profit table and Loss Table.	1/11/18	1/11/18	2/11/18		

In-Charge Faculty

Pro: Prof.N.D.Bobade

Prof.D.S.Deshmukh

Prof.S.A.Ghogare

(Handwritten signatures of Prof. N.D. Bobade, Prof. D.S. Deshmukh, and Prof. S.A. Ghogare)

P. G. Department of Computer Applications
(Odd Semester AY: 2018-2019)
Session/Teaching Plan (Practical)

Name of Faculty : Prof. Vinit Sinha , Prof. Ms. Nilima Bobade Class: MCA-II Sem: I
 Subject Name : C-Lab III Subject Code : 3MCA9

Sr. No	Name of Practical	Batch		
		B1	B2	B3
1	Write shell script for system call generated by linux kernel.	19/8	19/8	19/8
2	Write shell script for creating a File & Directory with r-w-x permission and user management.	25/8	25/8	8/8
3	Write a Shell script for displaying network devices and IP address of system .	13/8	8/8	25/8
4	Write a shell script to display current process & threads.	20/8	24/8	24/8
5	Write a shell script for DNS configuration of system .	27/8	5/9	5/9
6	Write a shell script for setting DHCP configuration for system .	DSD 8/2	5/10	26/9
7	Write a shell script for software deployment on INTRANET base system in ubuntu .		7/10	3/10
8	Write a shell script for SMB file shairing in Linux system.			31/10



In-chagre Faculty

Prof. Vinit Sinha

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

(Odd Semester AY: 2018-2019)

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 AI and its importance etc.	July	Week2	1
2		Knowledge : General concept			2
3		Introduction to LISP : Syntax			3
4		LISP and numerical functions			4
5		LISP list manipulation functions		Week3	1
6		predicates and conditional I/O			2
7		iteration and recursion and local variables.			3
8		Property list and arrays.			4
9	Unit II	Knowledge representation		Week4	1
10		Syntax and symantics for PL			2
11		Syntax and symantics for FOPL			3
12		WFF			4
13		Conversion to clausal form			Week5
14		Inference rules. <i>Rules</i>		2	
15		The resolution principle			
16	Unit III	Nondeductive inference methods		Week 1	1
17		Representation using rules	2		
18		Truth maintenance system	Week 2		1
19	Default reasoning	2			
20	closed world assumption	3			
21	Predicate completion and circumscription	4			
22	Unit III	model and temporal logics	Week 3	1	
23		Overview of object oriented systems		2	
24		Object classes messages and methods		3	
25		simulation examples using OOS program		Week 4	1
26	Knowledge organization and manipulation	2			
27	Examples of search problems	3			
				1	

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

(Odd Semester AY: 2018-2019)

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
28	Unit IV	Uniformed and blind search.	September	Week 5	2
29		Searching AND-OR graphs			3
30		structure used in matching			4
31		Measures for matching: distance matrices			1
32		qualitative measures, similarity measures		Week 2	2
33		Partial matching, Indexing			3
34		Integrating knowledge in memory			4
35		Unit V			General concept of knowledge acquisition
36	Learning by induction			2	
37	System Learning			3	
38	Analogical and explanation based learning			Week 4	1
39	Analogical learning				2
40	Analogical reasoning				3
41	Explanation and learning				1
42	Unit VI	Expert system Importance & applications		Week 5	2
43		Expert system architectures			3
44		Rules based system architecture	4		
45		Nonproductive system architecture	Week 1		1
46		Dealing with uncertainty		2	
47		Knowledge acquisition and validation		3	
48		Knowledge system building tools		Week 2	1
49		Introduction to Virtual Reality	2		
50	Blackboard Architechure	3			

Prof. Ram Meghe Institute of Technology & Research Badnera
P. G. Department of Computer Application
(Odd Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Prof. A. J. Pimprikar

Year: TYMCA

Section: _____

Subject Name: Software Project Management

Sem: I

Subject Code:

5MCA2

Sr. No	Unit No.	Topics to be Covered	Month	Week	Execution Date
1	UNIT I	Introduction: Software Project Management	July	Week3	1
2		Evolving role of Software			2
3		Software crises & myths, Software Engineering.			3
4		Software process & Process Models : Linear Sequential , RAD			4
5		Evolutionary Process Models:Incremental, Spiral,		Week4	1
6		Process Models : Prototyping Models			2
7		Project management concepts : People, Product, Process, Project			3
8		W5HH principle, Critical Practice.		Week5	1
9	Measures, Metrics & Indicators.	2			
10	Metrics in Process & Project Domains-Software Measurement.	3			
11	UNIT II	Metrics for Software Quality, Small Organization		Week6	1
12		Software Projects Planning : Scope			2
13		Resources Estimation.		Week1	1
14		Decomposition Technique, Tools.			2
15		Software Risks : Identification, Risk Projection			3
16		Refinement & RMMM Plan.			1
17	UNIT III	Project Scheduling : Concepts, Peoples Efforts.	Week2	2	
18		Task set, Task Network		3	
19		Scheduling. EV Analysis, Project Plan		4	
20		Software Quality Concepts		Week3	1
21		SQ Assurance, Software Reviews	2		
22		Technical Reviews, Software reliability	3		
23		ISO 9001, SQA Plan.	Week4		1
24		SCM Process. Version control. SCM standard.		2	

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

Prof. Ram Meghe Institute of Technology & Research Badnera
P.G.Department of Computer Applications
(Odd Semester AY: 2018-2019)

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)	Week1	1		
18	Key distribution, Public Key Cryptography Principles		2		
19	The RSA algorithm		Week2	1	
20	Diffie-Hellman key exchange	2			
21	Digital Signatures	3			
22	Unit III	Introduction to E-Mail Security	August	Week3	4
23		Kerberos			1
24		X.509 certificates, versions			Week3

25	Unit IV	X.509 versions & services	September	Week4	1
26		PGP operational description			2
27		MIME functionality,S/MIME functionality			3
28		Overview of IP security,IP security architecture		Week5	1
29		Authentication header			2
30		Introduction to Web security,Web Security requirements			3
32		Secure Socket Layer architecture			4
34		Secure Socket Layer Protocol		Week 2	1
35		Transport layer Security			2
36		Secure Shell (SSH)			3
37	TES	4			
38	Unit V	Basic Concepts of SNMP	Week3	1	
39		Network Management Architecture		2	
40		Protocol architecture		3	
40		SNMP v1 authentication service		4	
41		Access Service & Proxy Service	Week4	1	
42				2	
43		SNMP v2 architecture		3	
44		SNMP v2 architecture		4	
45		Message processing and User Security Model	Week5	1	
46		View based access control		2	
47	Intruders , Intrusion technologies	3			
48	Password protection, password selection	4			
49	Unit VI	Intrusion detection	Week1	1	
50		Viruses and related threats		2	
51		Firewall		3	
52		Trusted System concept,	Week2	1	
53		Data access control		2	
54		Data access control		3	
55		Doubts and Discussion		4	
56		Doubts and Discussion	Week3	1	

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

(Odd Semester AY: 2018-2019)

Session/Teaching Plan

Name of Faculty: Prof. D. R. Bandbuche

Year: MCA 3rd Year Sem II

Subject Name: Management Information System (Theory)

Subject Code: 5MCA

Sr.No	Unit No.	Topics to be Covered	Month	Week	Day
1	Unit I	General Introduction of the subject, syllabus, importance etc.	July	Week 3	1
2		Definition and Role of MIS			2
3		Impact of MIS			3
4		MIS and computers			4
5		MIS support to Management		Week 4	1
6		Types of business			2
7		Role and importance of management			3
8		MIS and process of management MIS in origin structure			4
9	Unit II	Basics of MIS	August	Week 5	1
10		Decision making. .		Week 1	1
11		Decision methods			2
12		Behavioral concepts			3
13		MIS and decision making concepts, Information		Week 2	1
14		Concepts and classification of information			2
15		Methods ,value of information			3
16		Organization and information			4
17		Human as an information processor		Week 3	1
18		Development of MIS		2	
19		Organizational decision making		Week 4	1
20	Applications of MIS	2			
21	Applications in manufacturing sector	3			
22	applications in service sector	Week 5	1		
23	Introduction to service, sector		2		
24	Creating a destructive services		3		
25	MIS applications in service industries		4		
26	role of MIS in source industrie		Week 2	1	
27	DSS: Concepts and philosophy	2			
28	deterministic systems and knowledge based expert systems	3			
29	Applications of MIS	4			
30	MIS in Enterprise Management System	er		1	

31	Unit IV	Technology in MIS in detail.	Septemb	Week 3	2	
32		Data processing concept			3	
33		Intruduction DBMS			1	
34		Object Oriented Technologies.		Week 4	2	
35					Client Server Arch. And MIS.	3
36					TQM of IS	1
37	Unit V	Network Topology	October	Week 5	2	
38		Selective indexes, Binding			3	
39		ATM Technology.			4	
40		LAN, Data Communication		Week 1	1	
41					Introduction Business Process.	2
42					Process Model of Organization.	3
43		Value stream model, .		Week 2	1	
44					Delays in Business Process	2
45					Rlevance of IT	3
46		MIS and BPR.		4		
47	Unit VI	MIS and Datawarehouse	October	Week 3	1	
48		Datawarehouse Architecture.			2	
49		Design and Justification of Datawarehouse, Organization.			3	
50		Management of data-warehousing.		Week 4	1	
51					Management and implementation of data-warehousing.	2
52					E-Business - Models.	3
53		WWW, E-payment		4		
54		MIS and E-business.		Week 5	4	
55					security in E-business	3
56	ATM Technology.	Sept emb er	Week 1	1		

Prof. Ram Meghe Institute of Technology & Research, Badnera
P.G. Department of Computer Applications
(Odd Semester AY: 2018-19)
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 2018	Week 1	1	
2		Data mining functions classification				2
3		major issues				
4		Data Preprocessing:				
5		Data cleaning		Week 2	1	
6		data integration				2
7		data transformation				3
8		data reduction				4
9		discretisation & concept hierarchy generation		Week 3	1	
10		Data mining primitives				2
11	data mining	3				
12	query language	Week 4	1			
13	Concept description			2		
14	Data generalization			3		
15	Data classification			4		
16	Analytical characterization					
17	Mining class comparison					
18	Application and trends in data mining	Week 5	1			
19	UNIT III	data mining applications	August 2018	Week 1	1	
20		data mining systems				2
21		research prototypes		Week 2	1	
22		additional themes				2
23		themes on data mining				3

24		Trends in data mining	September 2018	Week3	1 2 3
25		Data ware house			
26		OLAP Technology for data mining			
27	UNIT IV	What is data ware house		Week 4	1 2 3 4
28		data ware house architecture			
29		new trends in data mining			
30		multidimensional data model			
31		data ware house implementation		Week5	1 2 3 4
32		data ware house maintenance			
33		prepare for growth and evaluation			
34		plan effectively			
38		dimension table staging			
39		fact table loads		Week2	1 2 3 4
40		ware house operations			
41		data quality & cleansing			
42		Building end user applications	Week 3	1 2 3	
43		role of end user application			
44		application specification	Week 4	1 2 3	
45	end user application development				
46	maintaining data ware house				
47	growing data ware house	Week 5	1 2 3 4		
48	security and administration				
49	manage the existing data ware house environment				
50	Compare with existing data warehouse				
	Unit VI				

Prof. Ram Meghe Institute of Technology and Research, Badnera

P.G. Department of Computer Applications

Practical List

Subject : 5 MCA 6 Artificial Intelligence Lab.

Session: Winter 2018

Sr. No.	Name of Practical	Date			Sign of Faculty	Sign of HOD
		Batch B1	Batch B2	Batch B3		
1	WAP in LISP to execute car, cdr, cons & list functions.	16/7	18/7	20/7	APK	
2	WAP in LISP to execute append, last, member & reverse functions.	21/7	25/7	27/7	APK	
3	WAP for structure in LISP with proper example.	6/8	27/7	31/8	APK	
4	WAP in LISP to check use of different predicates for logic.	13/8	31/7	10/8	APK	
5	WAP in LISP to create and execute sum and average function.	20/8	5/8	24/8	APK	
6	WAP in LISP for property list implementation.	3/9	5/9 28/9	7/9	APK	
7	WAP in LISP for adding and processing elements in an array.	24/9 1/10	3/10	28/9	APK	
8	WAP in PROLOG for using facts, rules and queries.	15/10	31/10	2/11	APK	
9	WAP in PROLOG for use of predicates & Clauses.			12/10		
10	Write & execute Monkey banana problem in PROLOG. Also raise different queries to KB.	1/10	10/10	5/10	APK	



In-Charge Faculty
Prof. A.P.Kinhikar

Prof. Ram Meghe Institute of Technology & Research, Badnera

P. G. Department of Computer Application

Practical List

Subject:- 5MCA7 - Software Project Management

Session: Summer 2018

Sr. No.	Name of Practical	Dates for Batches			Sign of Faculty	Sign of HOD
		B1	B2	B3		
1	Design a questionnaire for the given project Create 3 categories of questionnaires for 1] High Level Employees 2] Middle Level Employees 3] Operational Level Employees	18/07/18	20/07/18	15/07/18		
2	Write different type of risks for the given project 1] Project Risks 2] Business Risks 3] Technical Risks and prepare a RMMM plan.	20/07/18	03/08/18	16/07/18		
3	Study of RAD Process Model for the given project.	25/07/18	10/08/18	23/07/18		
4	Prepare a Gantt Chart for the given project.	01/08/18	20/08/18	30/07/18		
5	Prepare design of product according to software design levels for the given project	08/08/18	24/08/18	06/08/18		
6	Implementation of different architecture style on given project.	21/08/18	07/09/18	13/08/18		
7	Prepare a Test Document for the given Project (Manual Testing)	24/09/18	21/09/18	20/08/18		
8	Write a test script on selenium using web drivers.	03/10/18	04/10/18	03/03/18		
9	Write a script selenium to find out errors on given project.	17/10/18	10/10/18	24/03/18		
10	Case study of mini project.	31/10/18	17/10/18	15/10/18		

Practical Incharge

Prof. A. J. Pimprikar

Prof .Ram Meghe Institute of Technology & Research, Badnera

Department of Master in Computer Application

Subject: (5MCA8) System Administration And Security Lab

Class: 3rd Year (I Semester) Session: W-2018

Practical List

Sr. No	Name of Practical	Date	Remark
1	Write a program to find IP address of Machine.	B2-16/07/18 B3-18/07/18 B1-20/07/18	.
2	Write a program to implement Monoalphabetic Cipher.	B2-23/07/18 B3-25/07/18 B1-27/07/18	
3	Create a simple virus using Robot class in java.	B2-30/07/18 B3-01/08/18 B1-03/08/18	
4	Create a critical virus.(No restriction of Technology or platform)	B2-06/08/18 B3-08/08/18 B1-10/08/18	
5	Write a program to implement DES.	B2-13/08/18 B3-29/08/18 B1-24/08/18	
6	Write a program to implement AES.	B2-20/08/18 B3-05/09/18 B1-31/08/18	
7	Find open ports using NMAP	B2-27/08/18 B3-12/09/18 B1-07/09/18	
8	Study of different Network commands in Ubuntu.	B2-03/09/18 B3-19/09/18 31-14/09/18	


In Charge Faculty