MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE PROGRAMME SYLLABUS WITH EFFECT FROM 2023-2024

934E910: Specialization Courses in Infrastructure Management

Subject	Subject Name	Category	L	T	P	0		S		Mark	S
Code							Credits	Inst. Hours	CIA	External	Total
934E910A	Introduction to Infrastructure Planning	Elective	3	-	ı	-	3	3	25	75	100
934E910B	Strategic Planning for Infrastructure Sectors	Elective	3	-	ı	1	3	3	25	75	100
934E910C	Value Engineering	Elective	3	-	ı	1	3	3	25	75	100
934E910D	Project Legislations	Elective	3	-	-	-	3	3	25	75	100
934E910E	Project Procurement and Quality Management in Construction	Elective	3	-	-	-	3	3	25	75	100
934E910F	Rural Infrastructure Planning and Management	Elective	3	-	-	1	3	3	25	75	100
934E910G	Environmental Impact and Risk Assessment	Elective	3	-	-	1	3	3	25	75	100
934E910H	Disaster Mitigation and Management	Elective	3	-	-	1	3	3	25	75	100
934E910I	IT Infrastructure Management	Elective	3	-	-	-	3	3	25	75	100
934E910J	Supply Chain Management for Infrastructure	Elective	3	-	-	-	3	3	25	75	100
934E910K	International Infrastructure Management	Elective	3	-	-	-	3	3	25	75	100

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total			
934E910A	Introduction to Infrastructure Planning	Elective	3	-	-	-	3	3	25	75	100			
Course Obje														
C1	To evaluate the different phases in the life cycle of an in role of various management functions in each phase								astructure project and					
C2	To Analyse the basic princip determining feasibility of pr		ect a	ppra	isal	and	evalu	ation	, and	l				
C3	the extent that these manage	To Evaluate the basic features of risk and quality management the extent that these management areas need to be implement									nd			
C4	To Develop methodologies for economic analysis and ICT us activities involved in infrastructure planning													
C5	impact and risk associated a	To Demonstrate the concepts of financial, economic, social and environment impact and risk associated and to understand and evaluate the environmental impact in an infrastructure project								tal				
UNIT	Details	1 0								Course Object	-			
I	Introduction: Definitions of infrastructure; planning steps; Planning and infrastructure projects; Scree cycle analysis; Multi-criteria infrastructure alternatives	appraisal on a property and a proper	of m ject	ajor idea	as; I			9		Cl	I			
П	Procurement Strategies: Procurement strategies; Sche planning activities; Economi Applications.							9		C2	2			
Ш	Applications. Methodologies: Principles of methodologies for economic analysis of public works, Social welfare function, Indifference curves and tradeoffs, Demand curves and price elasticity's; Benefit-cost ratio and internal rate of return; Shadow pricing; Accounting for risk and uncertainty							9		C	3			
IV	Project Risk and Estimation of Cash Flows: Project cash flows: Conventional and Nonconventional, Project Risk: Elements of Risk – Risk adjusted discounted rate – Estimation of Project Cash flows.							9		C ²	1			
V	Perspectives of Infrastructors social perspectives of infrast							9		C5				
	Total							45						

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	Course Outcomes	
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Critically evaluate the different phases in the life cycle of an infrastructure project and role of various management functions in each phase	PO1, PO2, PO6
CO2	Analyse the basic principles of project appraisal and evaluation, and determining feasibility of projects	PO1,PO2, PO4, PO6, PO7
CO3	Evaluate the basic features of risk and quality management of a project, and the extent that these management areas need to be implemented	PO2, PO4, PO6, PO7
CO4	Develop methodologies for economic analysis and ICT usage for various activities involved in infrastructure planning	PO1,PO2, PO4, PO6, PO7
CO5	Demonstrate the concepts of financial, economic, social and environmental impact and risk associated and to understand and evaluate the environmental impact in an infrastructure project	PO1,PO2, PO4, PO6, PO7
Reading List	t	
1.	Project scheduling – Probabilisitic and Deterministic (Whi	te paper)
2.	Financial Appraisal – Investment of public funds	
3.	Risk assessment framework – White paper	
4.	A case study of Delhi metro project	
References I	Books	
1.	A. S. Goodman and M. Hastak, Infrastructure planning, en economics, second edition, McGraw-Hill, New York, 2	
2.	Vicki Elmer, Infrastructure planning and finance: A smart 1st edition, Routledge, 2013.	and sustainable guide,
3.	P. Chandra, Projects: Planning, analysis, selection, financing review, Tata McGraw-Hill, New Delhi, 2009.	ng, implementation, and
4.	J. D. Finnerty, Project financing - Asset-based financial en publications; 2nd Edition, New York, 2007.	gineering, Wiley
5.	T. J. Webster, Managerial economics: Theory and practice 2003.	s, Elsevier, New Delhi,
6.	J. Parkin and D. Sharma, Infrastructure planning, Thomas	Telford, London, 1999.

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3				2		
CO 2	2	2		3		3	3	
CO 3		2		2		3	2	
CO 4	3	3		2		2	3	
CO 5	3	2		3		3	3	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E910B	Strategic Planning For Infrastructure Sectors	Elective	3	ı	-	1	3	4 5	25	75	100
	l) bjectives	l		<u> </u>						
C1	To create insights on various in and weaknesses.	nfrastructur	e se	ecto	rs a	nd	deba	ite th	eir s	strengt	ths
C2	To Investigate and analyse different and the variables impacting each		WO1	rks	use	d in	infr	astru	ctur	e secto	ors
C3	To analyse the systematic procestrategies for successful implementations.					en	a pr	oject	and	desi	gn
C4	To Appreciate the organization participants and ICT usage.	on setup	of	infı	astı	uct	ure	orga	niza	tion,	its
C5	To Evaluate the concept of pri projects and to Develop st infrastructure projects Possess t sheet modeling.	rategies f	or	suc	ces	sful	im	plen	nenta	ition	of
	SYLLA	BUS									
UNIT	Details	S						No. o Hour		Cou Objec	
I	Introduction: Introduction to and types – An overview of supply and Sanitation sector-transportation sectors- telecomming infrastructure- rural infrastructure	the Power Road, rail nunications	sec	ctor-	- W nd	/ate por	r t	9		C	I
II	Organizations and Players Organizations and players in the field of infrastructure. An overview of infrastructure project finance–procurement process, concession- design and award, financial risk analysis, management and mitigation. Credit rating of infrastructure projects, credit allocation framework for infrastructure projects.							9		C2	2
III	Infrastructure Privatization Private involvement in infraprivatization- benefits of inf			fras				9		C	3

	of power privatization of infrastructure in India- Privatization of road transportation infrastructure in India.		
IV	Challenges in Implementation Challenges to successful infrastructure planning and implementation: Mapping and facing the landscape of risks in infrastructure projects- Economic and Demand risks- Political risks- Socio- Environmental risks- Cultural risks in international infrastructure projects- Legal and contractual issues in infrastructure- Challenges in construction and maintenance of infrastructure.	9	C4
V	Special economic zones - Introduction.Infrastructure Strategies -Strategies for successful infrastructure project implementation: risk management framework for infrastructure projects- shaping the planning phase of infrastructure projects to mitigate risks- Designing sustainable contracts- Introduction to fair process and negotiation- Negotiation with multiple stakeholders on infrastructure projects- Sustainable development of infrastructure-Information technology and systems for successful infrastructure management- Innovative design and maintenance of infrastructure facilities- infrastructure modelling and life cycle analysis techniques.	9	C5
	T-4-1	45	
	Total	10	
C	Course Outcomes		
Course Outcomes		-	n Outcomes
Course Outcomes CO1	Course Outcomes	Progran	n Outcomes PO2, PO6
Outcomes	Course Outcomes On completion of this course, students will; Critically review various infrastructure sectors and debate their strengths and weaknesses. Investigate and analyse different frameworks used in infrastructure sectors and the variables impacting each sector.	PO1, PO	PO2, PO6 92, PO3, PO6
Outcomes CO1	Course Outcomes On completion of this course, students will; Critically review various infrastructure sectors and debate their strengths and weaknesses. Investigate and analyse different frameworks used in infrastructure sectors and the variables impacting each	PO1, PO1, PO1, PO1, PO1, PO1, PO1, PO1,	PO2, PO6
CO1 CO2	Course Outcomes On completion of this course, students will; Critically review various infrastructure sectors and debate their strengths and weaknesses. Investigate and analyse different frameworks used in infrastructure sectors and the variables impacting each sector. Demonstrate the systematic process to select and screen a project and design strategies for successful	PO1, PO	PO2, PO6 02, PO3, PO6 PO2, PO5,

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	implementing the projects. CO6: Develop strategies PO7, PO8
	for successful implementation of infrastructure projects
	Possess the knowledge on the fundamentals of spread
	sheet modeling.
	Reading List
	Sidney Levy, "Project Management in Construction", McGraw Hill Series, 5th
1.	edition, 2006.
2.	VISION – TAMILNADU 2023 - Strategic plan for Infrastructure Development
2.	in Tamilnadu
	References Books
1.	Hariyappa, "Strategic Planning", Book Tango Publication, 2015.
2.	John M. Bryson, Strategic planning for public and nonprofit organizations: A guide to strengthening & sustaining organizational achievements, 5th edition, 2014
3.	Richard Lambeck, John Eschemuller, "Urban Construction Project Management", McGraw Hill Series, 2009
4.	Antony Walker, "Project Management in Construction", Willy Blacwell, 5th edition, 2007
5.	David I. Cleland and Roland Gareis, "Global Project Management Handbook: Planning, Organization and Controlling International Projects", 2nd edition, McGraw Hill Series, 2006

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3				2		
CO 2	2	3	3			3		
CO 3	3	2			3	3	3	
CO 4	3	3				2		2
CO 5	3	3				3	2	2

			_						S		Mark	S
Sub	ject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934	4E910C	Value Engineering	Elective	3	-	-	-	3	45	25	75	100
			Objectives									
C1	To Under	stand the basics of Value Engine	eering (VE)	and	va	lue	ana	lysis	, its	meth	odolo	gy
CI		ods for appropriate time.										
C2		op and demonstrate the "function										
C3	_	e various factors for projects sele			_		_	_				
C4		e creative thinking in judgment	of various f	acto	ors	proj	ect	succ	cess	and e	effecti	ve
	usage of		2			1		. •				
		e alternative solutions for the f		-							_	_
C5		ninking and functional relationsh										
		n, and creative thinking in the of marketing	e field of v	aiu	e e	ngn	ieei	mg.	паус	e msi	gnis	OII
		of marketing							N	lo. of	Co	urse
1	UNIT	Det	ails									ectives
		Introduction Value Engineering	(VE) and V	alu	e A	naly	sis	(VA			ت کی	
		- Life Cycle of a product-Metho				_						
	I	Difference from the conventions	al methods o	of co	ost	redi	ucti	on-		9	(C1
		necessary costs reasons- Quant	itative defin	itio	n of	val	ue-	Use				
		value and Prestige value.										
		Functions :Estimation of produc							of			
		functions- Relationship between										
	**	Functions in product design – F										
	II	Worth –Effect of Value improve						tor		9	(C2
		poor value –Aims of Systematic						G1100				
		approach to value improvement of Job Plan	-various pha	ises	anc	ıtec	711111	ques				
		Project Selection Concepts :Fa	actors gover	ning	nr	oiec	·t		+			
	III	selection – Types of Projects-Li		•	- 1	J		r		9	(23
	111	managing the Total Value- Con-	-		5 (-	300	,, 10	,1			\	
		Creative Thinking: Creative th	-		tive	iuc	lgm	ent-				
		positive or constructive discontent- Tangible and Intangible										
	IV									9	(C4
		saving – Relationship between savings and probability of										
		success.										
		Functional Relationships: Type										
	V	Evaluation of Functional Relation	-						y	9	(25
	•	- Function – cost-weight - matri								,	`	
		Poor value areas - Creativity/S	peculation F	has	se –	Rul	les (of				

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	creativity – Idea activators- Result accelerators – Evaluation					
	Phase – Estimation of costs of ideas- Evaluation by comparison.					
	Total	45				
	Course Outcomes					
Course Outcomes	On completion of this course, students will;		Program Outcomes			
CO1	Understand the basics of Value Engineering (VE) and value analysis, its methodology and methods for appropriate time.		PO4, PO5			
CO2	Develop and demonstrate the "function analysis" for infrastructure projects	r i	PO2, PO4, PO5			
CO3	Appreciate various factors for projects selection and develop ar appropriate project.		PO1, PO2, PO4, PO5			
CO4	Induce creative thinking in judgment of various factors project success and effective usage of ICT.		PO2, PO4, PO5, PO6, PO7			
CO5	Create alternative solutions for the future with optimal selection or sorting using creative thinking and functional relationships Critically analyse the factors for project selection, estimation and creative thinking in the field of value engineering.	·	PO1, PO2, PO4, PO5, PO6, PO7			
	Reading List					
1.	Larry W. Zimmerman, Glen D. Hart, value engineering, CBS edition, 2010	•				
2.	Arthur E Mudge, "Value Engineering – A Systematic Approach Book Company, 1971.	ı", Mo	cGraw Hill			
	References Books					
1.	Anil Kumar Mukhopadhyaya, "Value Engineering: concepts, Tecapplications", Sage Publications, 2014.	chniqu	es and			
2.	Robin Cooper, Regine Slagmulder, "Target Costing and Value En Productivity Press, New York, 2017	nginee	ering",			
3.	Richard J Park, "Value Engineering – A Plan for Inventions", CR	C Pre	ss, 2017.			
4.	A.D. Raven, Profit Improvement through Value Analysis, Value Purchase Price Analysis, Cassell and Co. London, 2007.	C	C			
5.	S S Iyer," Value Engineering – A How to Manual", 3rd en Publishers, Chennai, ISBN: 978-81-224-2405-8, 2006.	dition,	New Age			
6.	6. Larry W. Zimmerman, Glen D. Hart, value engineering, CBS publications, 1st edition, 2010					
	PO 1 PO 2 PO 2 PO 4 PO 5 PO 6 PO 7 P	20.0				

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1				3	2			
CO 2		3		2	3			
CO 3	2	2		3	3			
CO 4		3		3	2	3	3	
CO 5	3	3		2	3	3	2	

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Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	CIA	External	Total	
934E910D	Project Legislations	Elective	3	-	-	-	3	45	25	75	100	
		Objectives										
C1	To create awareness on the basics of constitution, nature o rights and duties of owners and non-owners.								ts, ir	ıcludin	ıg	
C2	To evaluate about the infrastruc	ture policie	s, re	efor	ms	and	laws	s in v	ario	us sect	tors.	
C3	To throwlight on the negotiable and cyber laws.										n	
C4	To elucidate the nature of corpo companies.	rate secretar	ial	prac	etice	es fo	ollov	ved i	n the)		
C5	To create understanding on the mechanics of governance, structure and functions Understand and practice the policie related to various sector										ıs	
	SYLLA	BUS										
UNIT	Detail	ls						No. o Hour		Course Objectives		
I	Introduction: Constitutional law jurisdiction over different infrathe Centre and State - Law make Law.Role of Centre and State in Central funding of infrastructure oversight and interference; ESI Consent to operate	structure secting powers policy form e projects – e	ctor Adı nula cent	s b min tion tral	istra ı –	ative		9		C	1	
П	Private Participation: Investme ideological factors leading to comprivatisation of infrastructure driven economy - legal framework participation – modes of Public dispute settlement clauses in compression of the private of the priv	Private Participation : Investment requirements – non ideological factors leading to commercialisation and privatisation of infrastructure - from socialism to market driven economy - legal framework for private sector participation – modes of Public Private Partnership (PPP) -							9 C2			
III	General legal context: General Framework on environmental regulation and guidelines- Coastal Zone Regulation - Forest (Conservation) Act - Environmental Impact Assessment - Role of judiciary - Land Acquisition - Rehabilitation and resettlement							9		C	3	
IV	Mechanism of Governance : The genesis of Independent regulation		_			tior	ı	9		C ²	4	

	in different jurisdictions - Design and structure of regulators – scope and functions - regulatory process - and regulatory autonomy and accountability - regulatory predictability and certainty Regulatory law in India		
V	Infrastructure Sector polices, reforms, and laws: Power Sector/Electricity – Introduction - evolution of the power sector reforms, polices-National Electricity policynew legal framework- the state electricity boards-licensing framework- Provisions Relating to and working of Electricity Regulatory Commissions-their structure, role and functions. Telecommunications - The national telecom policies - the legal framework - Reforms – Policies Oil, Petroleum and Natural Gas - Reforms, policies and legal framework - New Exploration Licensing Policy (NELP) - production sharing contracts- the new Petroleum Regulatory and Natural Gas Board Act – the emerging regulatory reforms, Transport – Law, policy and reforms relating to Airports – Railways - Road – Port/TAMP and an overview of coastal shipping and Inland Water Transport policy	9	C5
	Total	45	
C	Course Outcomes	<u> </u>	
Course Outcomes	On completion of this course, students will;	Progran	Outcomes
CO1	Understand the basics of constitution, nature of contracts, including rights and duties of owners and non-owners.	PO1, PO	6
CO2	Critically evaluate about the infrastructure policies, reforms and laws in various sectors.	PO1, PO	4, PO6
CO3	Appreciate the negotiable instruments, partnership, consumer protection and cyber laws.	PO1, PO PO5, PO	
CO4	Demonstrate the nature of corporate secretarial practices	PO1, PO2, PO4, PO5, PO6, PO7	
CO4	followed in the companies.	PO5, PO	6, PO7
CO5	followed in the companies. Understand the mechanics of governance, jurisdiction, its structure and functions Understand and practice the policies, laws and reforms related to various sector	PO5, PO PO1, PO PO6, PO	2, PO4,
	Understand the mechanics of governance, jurisdiction, its structure and functions Understand and practice the policies, laws and reforms related to various sector	PO1, PO PO6, PO	2, PO4, 7, PO8
CO5	Understand the mechanics of governance, jurisdiction, its structure and functions Understand and practice the	PO1, PO PO6, PO	2, PO4, 7, PO8

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References Books							
1.	I.P Massey, Administrative Law, Lucknow: Eastern Book Company, 2017.						
2.	Piyush Joshi, Law Relating to Infrastructure Projects, New Delhi: Lexis Nexis						
	Publication, 2014						
2	Saravanavel, P. and S. Sumathi, Legal aspects of Business, Himalaya Publishing						
3.	House, Mumbai, 2012.						
4	D D Basu, The Constitutional Law of India, New Delhi: Lexis Nexis						
4.	Butterworths, 2009.						
5	Sidney Shapiro & Joseph Tomain, Regulatory law and policy: Cases and Materials						
5.	LexisNexis, 3rd Edition, 2003						

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3					3		
CO 2	3			3		2		
CO 3	2	3		3	2	3		
CO 4	3	2		2	3	3	3	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E910E	Project Procurement And Quality Management In Construction	Elective	3	-	-	-	3	4 5	25	75	100
		Objectives	l .								
C1	To create awareness on the procu		oces	s of	the	coı	npai	ny.			
C2	To throw light on Initiating and o							_	nt.		
C3	To Analyse and implement the q	uality aspec	cts i	n co	onst	ruct	ion	indu	stry.		
C4	To Initiate and execute the proce	ess of quali	ty c	erti	fica	tion					
C5	To Demonstrate the safety and and Effectively use the ICT for the	he procurer						•			•
	SYLLAI	BUS									
UNIT	Details	5						No. o Hour			
I	Introduction Introduction to procurement syst of Main Procurement Systems; Systems; Integrated Procurement Oriented Procurement Systems - Construction management; Des Discretionary Procurement Systems - Strategic partnering	eparated Parated Parated Systems; I Management ign and m	rocu Mar ent c ana	iren nage cont ge;	nent eme ract	t nt- ting	,	9		C	I
II	Project Contracts: Project Alliancing; Relational Contracting; Contract Administration – Contract Management – Project Procurement Process – Organisational Design – Issues in Procurement Systems: Cultural, Social, legal and technological.						9		C2	2	
III	Quality Control Introduction to quality – Importance of quality – Quality transition - quality control and inspection, quality assurance – Quality management: Evaluation – Planning - Control and design of structures.							9		СЗ	
IV	ISO Standards Inspection of materials and machinery; Quality assurance in construction; Systems quality management; Quality standards/codes in design and construction; (ISO:9000); Total quality management (TQM) - principles, tools and							9		C4	

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	techniques.				
V	Safety in Construction Industry Introduction to safety; Safety and health programmes,				
	Total	45			
	Course Outcomes	•			
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes		
CO1	Manage the procurement process of the company.	PO1, 1	PO2, PO4		
CO2	Initiate and close the contract for procurement.	,	PO2, PO3, PO4		
CO3	Analyse and implement the quality aspects in construction industry.	PO1, PO2, PO4, PO5			
CO4	Initiate and execute the process of quality certification PO2, PO4, PO5, PO6, PO8				
CO5	Demonstrate the safety and create awareness of the safety in an industry. Effectively use the ICT for the procurements process and quality assurance	,	PO2, PO4, PO6, PO7		
	Reading List	•			
1.	J. W. E. Masterman, An introduction to building procurem Francis, London, 2002.	ent syster	ns, Taylor &		
2.	B. G. Dale, Managing quality, 4th ed., Blackwell Publishing	g, Oxford,	2003.		
	References Books				
1.	F. Harris, R. McCaffer and F. Edum-Fotwe, Modern constr 6th ed., Blackwell Publishing, Oxford, 2006.				
2.	Abdul Razzak Rumane, "Quality management in Construction Press, Newyork, 2016.	tion Proje	cts", CRC		
3.	D. Walker and S. Rowlinson, Procurement systems - A management perspective, Spon, London, 2008.	cross-ind	ustry project		
4.	C. D. Reese and J. V. Eidson, Handbook of OSHA construction 2nd ed. CRC Press, Boca Raton, 2006.	ction safet	y and health,		
5.	D. Walker and K. Hampson, Procurement strategies - approach, Blackwell Publishing, Oxford, 2003.	A relati	onship-based		

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3		2				
CO 2	2	3	3	3				
CO 3	3	2		3	3			
CO 4		3		3	2	3		3
CO 5	3	2		3	3	3	3	

		_						S		Mark	KS
Subject Code	Subject Name	Cat	P	O	Credits	Inst. Hours	CIA	External	Total		
934E910F	Rural Infrastructure Planning & Management	Elective	3	-	-	-	3	4 5	25	75	100
		se Objectives		l .				Į.			
C1	To analyse the need and imp	ortance of rural	l inf	rast	ruc	ture					
C2	To evaluate the infrastructure sectors.	e required for a	gric	cultu	ire a	and	othe	r rur	al all	lied	
C3	To throw light on the development.	pment of rural i	infr	astr	uctu	ire (leve]	lopm	ent t	to natio	onal
C4	To identify the opportunities										
C5	To Develop projects relating strategies, procedures and pocommunity.	licies related to									
	SYL	LABUS									
UNIT	De	tails						No. o Hour		Cou Objec	
I	Introduction Nature, scope, need and important planning for rural area. Conceptoride infrastructure for rural provide infrastructure	ept, approache						9		C	1
II	Infrastructure for Agriculture Infrastructure inputs for agric problems of agriculture; Class land utilization pattern, Farm Fertilizers.	culture; Importa	nd,	Cha	ınge	in		9		C2	2
Ш	Infrastructure for Allied activities Public distribution system – Marketing system – Infrastructure for processing – grading – packing. Irrigation means, their relative importance & network systems – Infrastructure for Allied activities – Forestry – Animal husbandry – Poultry – Fisheries – Piggeries – Sericulture – Beekeeping. Infrastructure for water logging and soil erosion.					9		Câ	3		
IV	Infrastructural Development Infrastructure to provide energy – Fuel and electricity network for developing rural areas. Raw materials distribution centres for handicrafts and rural industries. Tourism potential and heritage in rural places.						9		C ²		
V	Infrastructure for Different S	ectors			Infrastructure for Different Sectors					C:	5

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	Education – Health – Water Supply – Seweage –								
	Recreational points of social interaction – Provision for								
	banks – Cooperatives – Policies & Programmes.								
	Total	45							
Course Outcomes									
Course Outcomes	On completion of this course, students will;	Program Outcomes							
CO1	Realize the need and importance of rural infrastructure.	PO2, PO	3, PO4						
CO2	Demonstrate the infrastructure required for agriculture and other rural allied sectors.	PO1, PO PO6, PO	, ,						
CO3	Relate the development of rural infrastructure development to national development.	PO3, PO PO6, PO							
CO4	Understand opportunities available in rural infrastructure development.	PO3, PO4, PO7							
CO5	Develop projects relating to rural infrastructure development and Develop strategies, procedures and policies related to infrastructure for the uplift of rural community.	PO3, PO4, PO7, PO8							
Reading List									
1.	Jain, Gopal Lal, (2001), Rural Development, Knowledge Pu		, New Delhi.						
2.	Bhatia, B.M., (1988), Indian Agriculture: A Policy Perspect Publications, New Delhi	ive. Sage							
References Bo	oks								
1.	Lekhi, R. K. and Joginder Singh, Agriculture Economics – A 11th edition, Kalyani Publishers, New Delhi, 2016	An Indian	Perspective,						
2.	Greg Halseth, Sean Markey, Laura Ryser, "Service Profession and Rural								
3.	Gaurav Datt & Ashwani Mahajan, "Datt & sundharam., Ind Revised Edition, S. Chand, New Delhi, 2016.	ian Econo	my", 70th						
4.	Pingali Venugonal Ram Kaundinya "Agri Input marketing in India' Sage								
5.	Rhargay G. Development of India's Urban Rural and Regional Planning in 21st								

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1		3	2	3				
CO 2	3	2		2		3	3	
CO 3			3	3	3	2	3	
CO 4			3	3			2	
CO 5			3	3			3	3

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Subject Code	Subject Name	Category	L	Т	P	О	Credits	Inst. Hours	CIA	External	Total	
934E910G	Environmental Impact And Risk Assessment	Elective	3	-	-	-	3	4 5	25	75	100	
	Course (bjectives				ı				1		
C1	To understand the basics of envir Regulator Aspects in India	ronmental i	mpa	act a	asse	essm	ent a	and i	ts Le	gal an	ıd	
C2	To demonstrate the purpose, promaking process.	cess and lin	nita	tion	s of	f EL	A in	the c	lecis	ion-		
СЗ	To Understand and evaluate the the assessment of environmental		s of	EIA	A ar	nd u	sage	of I	CT in	n analy	yzing	
C4	To Adopt, plan and apply commented the methodologies and methods and	•					-	ct as	sessi	ment		
C5	To Develop, prepare, implement rehabilitation plans aligned with policies and guidelines to safeguard environment and to Understand the environmental risk assessment framework and assess socio-economicimpact and environmental risk impact											
	SYLLAI	BUS										
UNIT	Details	S						No. o Hour		Cou Objec		
I	Development of Envir	t Cycle-L Types and L	ega imi	Imp l a tatio	act and ons			9		C	1	
II	Components of EIA: Components of EIA environmental risk assessment: EIA Process-Screening and Scoping-Public Participation in EIA-Mitigation. Methodology: Methods for Environmental assessment-Matrices &Networks-Checklists- Cost benefit analysis-Analysis of Alternative-Software Packages for EIA and Expert Systems in EIA.						9		C2	2		
III	Prediction and assessment: Prediction tools for EIA - Mathematical modeling for impact prediction-Assessment of Impacts on Air and Water-Assessment of Impacts on Soil and Noise - Assessment of Impacts on Biological Community-							9		С3		

		ı		
	Cumulative Impact Assessment-Documentation of EIA Findings & Report Preparation.			
IV	Socio-economic impact assessment: Socio-economic impact assessment: Definition of Social Impact Assessment-Social Impact Assessment model and theplanning process-Relationship between social impacts and change in community and institutional arrangements-Individual and family level impacts —Communities in transition. Environmental management plan: Environmental Management Plan — Preparation and implementation and Rehabilitation plans-Policy and guidelines for planning and monitoring programmes - Post Project Audit-Ethical and Quality aspects of Environmental Impact Assessment—case studies.	9	C4	
V	Environmental risk assessment: Environmental risk assessment framework-Hazard identification - Dose Response Evaluation – Exposure Assessment – Exposure Factors, Tools for Environmental Risk Assessment – HAZOP and FEMA methods – Event tree and fault tree analysis - Risk Characterization Risk communication - Emergency Preparedness Plans –Design of risk management programs.	9	C5	
	Total	45		
	Course Outcomes			
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes	
CO1	Understand the basics of environmental impact assessment and its Legal and Regulator Aspects in India	РО	1, PO6	
CO2	Critically demonstrate the purpose, process and limitations of EIA in the decision-making process.	PO1, PO4, PO6		
CO3	Understand and evaluate the components of EIA and usage of ICT in analyzing the assessment of environmental risk.	PO1, PO2, PO4, PO5, PO6		
CO4	Adopt, plan and apply commonly used environmental impact assessment methodologies and methods and develop their own methods.	PO1, PO2, PO4, PO5, PO6, PO7		
CO5	Develop, prepare, implement rehabilitation plans aligned with policies and guidelines to safeguard environment and	· · · · · · · · · · · · · · · · · · ·	PO2, PO4, PO7, PO8	

	to Understand the environmental risk assessment							
	framework and assess socio-economic impact and							
	environmental risk impact							
Reading List								
1.	Canter L.W., "Environmental Impact Assessment", McGraw 1996	Hill, New York,						
2.	Risk Assessment Framework for Project Management, IEM	C 2006						
	References Books							
1.	Anjaneyalu, Vallimanaickam, Environmental Risk Assessm B.S publications, 2 nd edition, 2011.	ent methodologies,						
2.	Stephen Tromans, Environmental impact assessment, Bloom 2012	nsburg publishing,						
3.	Peter Wathern, Environmental Impact Assessment: T Routledge publisher, 2015	Theory & Practice,						
4.	Lawrence, D.P., "Environmental Impact Assessment – Prac recurrent problems", Wiley-Interscience, New Jersey, 2003.							
5.	Petts J., "Handbook of Environmental Impact Assessment Blackwell science, London, 1999	nent', Vol., I and II,						

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E910H	Disaster Mitigation And Management	Elective	3	-	-	-	3	45	25	75	100	
		bjectives						ı		1	I	
C1	To provide insights on the difference Management Policy, Procedure as	nd Institution	ona	l Me	echa	anis	m					
C2	To Analyse and evaluate the environmental, social, cultural, economic, legal factors of disaster											
C3	To Evaluate the environmental, social, cultural, economic, legal and organisational aspects influencing vulnerabilities and capacities to face disasters.									cional		
C4	To evaluate protection measures damages to building by strengthe	during disa	istei	r, flo	ood,	, lar	ndsli		ıd av	oiding	<u> </u>	
C5	restoration and to develop the fra	To Generate protection measures during landslide and strengthening existing and restoration and to develop the framework for the disaster management & disaster mitigation and effective usage of ICT in disaster management										
	SYLLAI	BUS										
UNIT	Details	8						No. o Hour		Course Objectives		
Ι	Introduction: Difference betwee Types of disasters-Phases of Hazards -Classification of Hazards -Buildings - Building safety aga Cyclone - Landslides -Tsun Management Policy and Proced Institutional Mechanism -Schem	disaster l ards - Ha ainst hazar ami and ure – legal	Mar zard ds Fir	nage ls a – F e. ime	eme affect lood Disa wo	nt eting ds - aste	- g - r	9		C	1	
II	Earthquake Disaster: Earthqua Hazard Map -Causes of Earth EarthquakesSeismic waves forces, Natural period -Reson response of free vibration -Seis vibration	nke Disaste quakes -C -Energy re nance, Dan	er - lass elea npir	Ear ifica se -	thquation In Sei	n o erti smi	f a c	9		C2		
III	Protection Measures: Landslic cyclones - Tsunami - Mitigation		ods	<u> </u>	Ггој	pica	ıl	9		С3		
IV	Hazard Assessment: Vulnerabil Assessment – Seismic Strengthe Restoration Strengthening of Exi Strengthening Materials-Retrofi Wall Buildings Retrofitting of Re	ity Assessining of Buisting Build	ldir ling oad	ngs-l s	Rep	airs		9		C4	4	
V	Land use Zoning Regula	tions &	Ç)ual	ity			9		C:	5	

	control: Introduction-Community planning Community Contingency plan –Report building and initial awareness- Recommendations For Land use Zoning RegulationsConstruction Quality Control - Evolution of Quality Management - Reasons for poor construction -Construction of Quality control in Masonry Structures.				
	Total Course Outcomes	45			
Course Outcomes	On completion of this course, students will;	Program	n Outcomes		
CO1	Understand the difference between hazard, disaster, Disaster Management Policy,Procedure and Institutional Mechanism	PO2, 1	PO4, PO6		
CO2	Analyse and evaluate the environmental, social, cultural, economic, legal factors of disaster		PO2, PO4, PO6		
CO3	Evaluate the environmental, social, cultural, economic, legal and organisational aspects influencing vulnerabilities and capacities to face disasters.		PO2, PO4, PO6		
CO4	Critically evaluate protection measures during disaster, flood, landslide and avoiding damages to building by strengthening existing and restoration.	PO1, PO2, PO4, PO6, PO7			
CO5	Generate protection measures during landslide and strengthening existing and restoration. Develop the framework for the disaster management & disaster mitigation and effective usage of ICT in disaster management		PO2, PO4, 6, PO7		
	Reading List				
1.	Ayaz Ahmad, "Disaster Management: Through the New Mi Publications, 2003.	llennium''	, Anmol		
2.	Sahni, Pardeep et.al. (eds.), Disaster Mitigation Experiences Prentice Hall of India, New Delhi. 2002	and Refle	ections,		
	References Books				
1.	Rajan Kumar Sahoo, Management and Mitigation of Natur Publications, 1 st edition, 2014.				
2.	Dr. U.Sai jyoti, SIA Expert, Disaster management and mitig Publisher, 2018		ΓU-A, SIA		
3.	Singh R.B, "Disaster Management", Rawat Publications, 20				
4.	Ghosh G.K. "Disaster Management", A.P.H. Publishing Con				
5.	Goel, S. L. "Encyclopaedia of Disaster Management", Deep Pvt Ltd., 2006	& Deep I	Publications		

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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1		3		3		2		
CO 2	3	3		2		3		
CO 3	3	2		3		3		
CO 4	3	3		3		3	2	
CO 5	2	3		3		3	3	

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E910I	IT Infrastructure Management	Elective	3	-	-	-	3	45	25	75	100
		Objectives	l							<u> </u>	
C1		·									
C2	To describe the business value and processes of ICT services in an organisation and apply that knowledge and skill with initiative to a workplace scenario.										
C3	To Evaluate how effective IT planning with alignment from organization										
C4	To create insights and to demo								catio	ns ski	lls
C5	To Improve the effective methods for storage, recovery and managing the data for an organization and Understand and develop security, firewall and intellectual property										
	SYLLA	BUS									
UNIT	Detail	ls						No. o Hour		Course Objectives	
1	Introduction: Definition - Information - Evolutions of S Midrange-to-PCs-to-Client-Servage Systems) - Growth of Into Demands and IT System Issues Computing Environment - Management for Business.	ystems (Ma ver Compo ernet - Curr - Complexi	ainf utin ent	ram g-to Bu of To	es-t -Ne sine	ew ess y's		9		Cl	
II	Management for Business. Designing: Factors to Consider in Designing IT Organizations And IT Infrastructure - Determining Customer's Requirements - Identifying System Components to Manage - Exist Processes - Data - Applications - Tools and Their Integration - Patterns for IT Systems Management - Introduction To The Design Process For Information Systems - Models - Information Technology Infrastructure Library (ITIL).								C2	2	
III	System Management and Co	mputing E ystem Ma Management	nvi nag - N	ron eme Mod	mer ent lels	n t: - in		9		C3	3

	Diagram - Patterns For IT System Management; Complexity of Current Computing - Multiple Technologies - Multiple Vendors - Multiple Users - e- Waste Disposal - Total Cost of Ownership.		
IV	Storage Management: Introduction - Types - Benefits - Backups - Archive - Recovery - Disaster Recovery - Space Management - Hierarchical Storage Management - Network Attached Storage - Storage Area Network - Bare Machine Recovery - Data Retention - Database Protection	9	C4
V	Security: Introduction Security - Identity Management - Single Sign-On - Access Management. Basics Of Network Security - LDAP Fundamentals - Intrusion Detection - Firewall - Security Information Management - Introduction To Cyber Ethics - Intellectual Property - Privacy and Law - Computer Forensics - Ethics And Internet - Cyber Crimes	9	C5
	Total	45	
G	Course Outcomes	<u> </u>	
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes
CO1	Estimate and develop the ICT requirements for infrastructure management.		PO2, PO6, PO7
CO2	Describe the business value and processes of ICT services in an organisation and apply that knowledge and skill with initiative to a workplace scenario.	PO2, 1	PO4, PO6
CO3	Evaluate how effective IT Infrastructure Management requires strategic planning with alignment from both the IT and business perspectives in an organization	PO2, 1	PO4, PO6
CO4	Demonstrate the technical and communications skills that contribute to the operation of ICT services in an organisation	PO2, 1	PO4, PO6
CO5	Improve the effective methods for storage, recovery and managing the data for an organization and Understand and develop security, firewall and intellectual property	PO2, 1	PO4, PO6
	Reading List		
1.	Kenneth C Laudon, Jane P Laudon, —Management Managing the digital firm, 13th edition, Pearson education le		
2.	Information systems Journal – Wiley Online Library.		
	References Books	n x . ^	
1.	Phalguni Gupta, Surya Prakash and Umarani Jayaraman, "II Management", Tata McGraw Hill Education Pvt. Ltd., New	Delhi – 2	009
2.	Rich Schiesser, IT Systems Management, Prentice Hall Pu 2010.	ıblication,	2nd edition,

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3.	James A O'Brien, —Management Information Systems, 10th edition, Tata Mc Graw Hill, 2011.
4.	E Turban, E Mclean and James C. Wetherbe, — Information Technology for Management: Transforming Organizations in the digital economy, 6th edition, John Wiley and sons Ltd., Newyork, United States
5.	Sharma S, "IT Infrastructure And Its Management", Vayu Education Of India, 2012

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3				2	3	
CO 2	3	3				3		
CO 3	3	2				3		
CO 4	2	3				3		
CO 5	3	3				3		

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Subject Code	Subject Name	Category	L	Т	P	О	Credits	Inst. Hours	CIA	External	Total			
934E910J	Supply Chain Management For Infrastructure	Elective	3	-	-	-	3	45	25	75	100			
	Course	Objectives												
C1	To create knowledge on comp strategic and operational decision	ons of supply	y ch	ain.	_									
C2	To develop comprehensive strategic and tactical plans for supply chain management									ain				
C3	To generate creative, critical and reflective thinking to address organizational opportunities and challenges in supply chain.										nal			
C4	To Improve appropriate technopportunities and challenges in			velo	opir	ng s	solut	ions	to	busine	ess			
C5	To Analyze, forecast the dem Identify and develop ICT for eff									ngly a	nd			
	SYLLA													
UNIT	Detai	ls						No. o Hour		Cou Objec				
I	Introduction to Supply Chain Management. Supply chain — objectives — importance — decision phases — process view — competitive and supply chain strategies — achieving strategic fit — supply chain drivers — obstacles — framework — facilities — inventory — transportation — information — sourcing — pricing, pricing, Key issues and benefits of SCM.							9		Cl	I			
II	Designing the Supply Chain Network. Designing the distribution network, role of distribution, factors influencing distribution, design options, distribution networks in practice, network design in the supply chain, factors affecting the network design decisions. Designing and Planning Transportation Networks, role of transportation, modes and their performance, transportation Infrastructure and policies, design options and their trade-offs, tailored transportation							Designing the distribution network, role of distribution, factors influencing distribution, design options, distribution networks in practice, network design in the supply chain, factors affecting the network design decisions. Designing and Planning Transportation Networks, role of transportation, modes and their performance, transportation Infrastructure and policies,					C2	
III	Designing the Supply Chain N Designing the distribution network factors influencing distribution,	igning the Supply Chain Network. Igning the distribution network, role of distribution, ors influencing distribution, design options, ribution networks in practice, network design in the					9 C		C3	3				

	supply chain, factors affecting the network design decisions. Designing and Planning Transportation Networks, role of transportation, modes and their		
	performance, transportation Infrastructure and policies, design options and their trade-offs, tailored transportation		
IV	Information Technology in the supply chain. IT Framework – customer relationship management – internal supply chain management – supplier relationship management –transaction management, RFID, EDI – future of IT. –collaborative planning, forecasting and replenishment, Role of computer/ IT in supply chain management.	9	C4
V	Coordination in a Supply Chain: Lack of supply chain coordination and the Bullwhip effect – obstacle to coordination – managerial levers – building partnerships and trust – continuous replenishment and vendor-managed inventories (VMI). Demand Management and Customer Service: Logistics costs, Logistics activities and elements, Outbound to customer logistics systems – Demand Management – Traditional Forecasting – Collaborative Planning Forecasting Replenishment Planning (CPFRP) – customer service – expected cost of stock outs – channels of distribution.	9	C5
	Total	45	
	Course Outcomes		
Course Outcomes	On completion of this course, students will;	Program	n Outcomes
CO1	Evaluate complex qualitative and quantitative data to support strategic and operational decisions of supply chain.	PO1, 1	PO2, PO4
CO2	Develop comprehensive strategic and tactical plans for supply chain management	PO1,	PO2, PO4
СОЗ	Generate creative, critical and reflective thinking to address organizational opportunities and challenges in supply chain.		PO2, PO4
CO4	Improve appropriate technologies in developing solutions to business opportunities and challenges in supply chain.	PO1, PC	2, PO4, PO6
CO5	Analyze, forecast the demand and serve the customer accordingly and Identify and develop ICT for effective implementation of supply chain	PO1, PC	2, PO4, PO6
	Reading List	1	
1.	Gordon S. Linoff, Michael J. A. Berry, Data Mining Techn	iques: Fo	r Marketing,

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	Sales, and Customer Relationship Management, Wiley,2011
2.	Journal of Supply Chain Management, Wily Publications
	References Books
1.	Agarwal DK, A text book of logistics and supply chain management, - 1st edition,
1.	macmillan, 2008.
2.	Donald J Bowersox, Dand J Closs, M Bixby Coluper, Supply Chain Logistics
2.	Management, 2nd Edition, TMH, 2008.
3.	Chopra Sunil and Peter Meindl Supply chain management, - 3rd edition, Pearson,
3.	2007.
4.	Coyle, Bardi, Longley The Management of Business Logistics – A supply Chain
4.	Perspective:, Thomson Press, 2006.
5.	B.S. Sahay, Supply Chain Management, Macmillan, Pearson Education, 2004
6.	

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1	3	3		2				
CO 2	3	2		3				
CO 3	2	3		3				
CO 4	3	3		3		2		
CO 5	3	3		3		3		

								S		Mark	S		
Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total		
934E910K	International Infrastructure Management	3	3	1	-	1	3	4 5	25	75	100		
		Objectives											
C1	To Evaluate the international er management.							of in	frast	ructure	2		
C2	To analyse the impact of LPG i												
С3	To analyse the international quaimplement them.	•											
C4	To Design infrastructure for int class manufacturing techniques	and use it	effe	ctiv	ely	in tl	heir	proje	cts		d		
C5	To Create strategies for compet		tage	an	d ef	fect	ive ı	ise o	f IC	Γ.			
	SYLLA	BUS					4,						
UNIT	Details	S						No. o Hour		Course Objectives			
I	Introduction Evolution of International Business (IB)-Nature of IB-Drivers of globalization- Routes of globalization. Globalization: Boon or Bane?-Goals of IB-Differences between domestic business and IB-stages of internationalization —Advantages and limitations and challenges of entering IB- Players in IB.							9		Cl	l		
II	International Business Environ Socio-Cultural environment, Po- environment and dispute settlem Technological Environment, Eco natural environment. Global Stra Multinational Enterprises- Role strategy-Global Market Entry Str Hex Model: Strategies for success	litical envir ent mechan onomic env tegic Mana e of strategy rategies- Ju	ism iron igen /- cł	, men nen noic	nt, t ar e of	nd f		9		C2	2		
III	Organizational Design for IB: design – product design – area de division structure	-	9	C3		3							
IV	International operations mana management and competitive ad – strategic role of foreign plants managing service operations - In Managing Technology Transfers	vantages – – internatic ternational	stra onal	tegi log	c is			9		C4	1		

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V	International Contributions to World class manufacturing Japanese management overview- management style - employee involvement - drawbacks of Japanese management. Japanese manufacturing techniques- JIT- eliminating waste and adding value- the seven wastes-value added manufacturing. Total quality control - Deming's contributions to TQC. Application of Japanese manufacturing in the US. Total	9	C5					
	Course Outcomes							
Course Outcomes	On completion of this course, students will;	Program Outcomes						
CO1	Evaluate the international environment and related issues of infrastructure management.	PO2, PO3, PO4						
CO2	Critically analyse the impact of LPG in infrastructure management	PO2, PO3, PO7						
CO3	Analyse the international quality standards of infrastructure projects and implement them.	PO3, PO4, PO7, PO8						
CO4	Design infrastructure organization for international business	,	PO2, PO3, PO4, PO7, PO8					
CO5	Create strategies for competitive advantage and effective use of ICT. Understand various world class manufacturing techniques and use it effectively in their projects	PO2, PO3, PO4, PO7, PO8						
	Reading List							
1.	Production and Operations Management, Concepts, models and Behaviour, Everett E. Adam, Jr. & Ronald J. Ebert, PHI Learning, 5 th Edition, 2010.							
2.	Global Business, Czinkota, etal, Dryden Press, 8th Edition, 2009							
	References Books	.1						
1.	International Business, Charles W.L. Hill, McGraw-Hill, 10 th Edition, New Delhi, 2013							
2.	International Business, Darrell Mahoriy, etal, Longman, PHI, 11th Edition							
3.	International Business Environments and Operations, John D. Daniels, etal, Pearson Education, 11 th Edition, 2015							
4.	International Business, Justin Paul, PHI Learning, 6 th Edition, New Delhi, 2013.							
5.	International Business, Aswathappa K, Tata McGraw Hill, 4 th Edition, New Delhi, 2010.							

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8
CO 1		3	3	2				
CO 2		3	3				2	
CO 3			3	3			3	2
CO 4		2	3	3			3	3
CO 5		3	2	3			3	3