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

934E904: Specialization Courses in Disaster Management

Subject	Subject Name	Category	L	T	P	0		S		Marl	KS
Code							Credits	Inst. Hours	CIA	External	Total
934E904A	Basics of Disaster Management	Elective	3	-	-	-	3	45	25	75	100
934E904B	Disaster Risk Governance	Elective	3	-	-	-	3	45	25	75	100
934E904C	Disaster Preparedness and Decision Making	Elective	3	-	-	-	3	45	25	75	100
934E904D	Ecosystems and Habitat	Elective	3	ı	ı	-	3	45	25	75	100
934E904E	Environmental Economics and Management	Elective	3	-	-	-	3	45	25	75	100
934E904F	Principles of Remote Sensing and GIS	Elective	3	1	1	1	3	45	25	75	100
934E904G	Crisis Management	Elective	3	-	-	-	3	45	25	75	100
934E904H	Geology and Meteorology	Elective	3	ı	ı	-	3	45	25	75	100
934E904I	Disaster Mitigation	Elective	3	-	-	-	3	45	25	75	100
934E904J	Geoinformatics in Disaster Mitigation	Elective	3	1	ı	ı	3	45	25	75	100
934E904K	Climate Change and Disaster Management	Elective	3	ı	ı	ı	3	45	25	75	100
934E904L	Psycho-social Ramifications and Resource Mobilization	Elective	3	1	ı	1	3	45	25	75	100
934E904M	Disaster Economics and Financing	Elective	3	ı	Ī	1	3	45	25	75	100
934E904N	Preventive Laws In Disaster Management	Elective	3	-	-	1	3	45	25	75	100
934E904O	Disaster Response	Elective	3	_	_	-	3	45	25	75	100
934E904P	Disaster Recovery	Elective	3	-	-	-	3	45	25	75	100

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904A	Basics of Disaster Management	Elective	3	-	-	-	3	45	25	75	100
		Course Objectives							II.		
C1	To familiarize the students on th	e basic cond	cept	s of	dis	saste	er m	anag	eme	nt	
C2	To create awareness on types of										
C3	To throw light on manmade disa			de r	elev	vant	cas	se stu	dies		
C4	To elucidate on risk disaster and										
C5	To provide insights on approach			g ri	sk d	lisas	ster	and v	ulne	erabilit	y
		SYLLAB	<u>US</u>				-	.	•		
UNIT	Details	s						No. o Hour		Cou Objec	
I	Hazard, Vulnerability, Resilien management: Meaning, Nature, & Scope- Disaster Management Natural disasters: Natural I nature of natural disasters, the Hydrological Disasters - Floods Geological Disasters - Ea									C1	
II	Storms, Storm surges, Tidal way Climate change- Global warmin Depletion. Case studies: Flood Kerala floods 2018. Cyclones – Famines and drought- Great Ber 1876-1878 and 1943,	2013.Earthquake- Nepal 2015, Gujarat, Bhuj 2001.						9		C2	2
III	Man-made disasters: CBRN biological disasters, radiolog disasters. Fire – building fire, fire. Pollution – air pollu Deforestation, Industrial waste, Quarries. Soil erosion, groundwintrusion, biodiversity loss and studies: Kumbakonam School fi Tragedy 1984, Fukushima Daiic	cical disas coal fire, f ation, wat Desertificat vater deplet biological re 2004, Th	ters fores er tion wan	st fi po , M , sa faro Bhop	nuc ire, llut ine lltw e. C	lear Oil ion. and ater Case Gas		9		C:	3

	2011. Biological disasters – Swine flu 2009.War- Atomic bombings of Hiroshima and Nagasaki1945.						
	Disaster risk and vulnerability - vulnerability as a cause						
IV	and consequence of disasters, components of vulnerability, vulnerability poverty and development, links to development perspectives: Sen's work on famine and entitlements	9	C4				
V	9	C5					
	Total	45					
	Course Outcomes	T					
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes				
CO1	Possess knowledge of the basic concepts of disaster management	PO1, 1	PO2, PO3				
CO2	To create awareness of types of natural disasters		PO2, PO3				
CO3	Learn and understand the various scenarios of manmade disasters	PO1, PO2, PO5, PO					
CO4	Have a better understanding on risk disaster and vulnerability	PO1, PO2, PO8					
CO5	Have insights on approaches on measuring risk disaster and vulnerability	PO1, PO2, PO3, PO8					
	Reading List						
1.	Disasters – Wiley Online Library						
2.	Disaster Management - A Disaster Manager's Handbook, Development Bank	W. Nick (Carter, Asian				
3.	International Journal of Disaster Risk Science, Springer						
4.	Disaster Prevention and Management, Emerald						
	References Books						
1.	Alexander, D., & Alexander, D. E., Confronting perspectives onnatural disasters. USA: Oxford University Pr	-	ne: new				
Andharia, J, Vulnerability and disasters: Conceptual contours of a people-centred view. In: S. Parasuraman & Unni Krishnan (ed.) India Disaster Report II: Redefining Disasters. Delhi: Oxford University Press, 2013							
Blaikie, P., Cannon, T., Davis, I., & Wisner, B., At risk: natural hazards, people's vulnerability and disasters. Routledge, 2014							
Edward A. Keller and Robert. H. Blodgett, Natural Hazards. Pearson Prentice Hall.USA, 2008							
5.	Goel. S.L, Disaster Administration and Management, New publication, 2007	Delhi: D	Deep & Deep				
6.	Gupta Anil K, Sreeja S. Nair, Environmental Knowled	lge for E	Disaster Risk				

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Management, New Delhi: National Institute of Disaster Management, 2011

	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	3					
CO 3	2	3			3			3
CO 4	3	2						2
CO 5	2	3	3					3

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904B	Disaster Risk Governance	3	45	25	75	100					
		Objectives									
C1	To provide insights on theories										_
C2	To throw light on disaster go scales	vernance in	stitu	ıtioı	ns a	and	net	work	s at	multip	ole
C3	To familiarize on policy and ins in India	stitutional ar	rang	gem	ents	s fo	r dis	saster	mar	nageme	ent
C4	To create awareness on role management	of NGO	anc	i	coı	mm	unit	y	in	disas	ter
C5	To elucidate on policy and insti	tutional arra	nge	mer	nts f	or c	lisa	ster m	ana	gemen	t
		SYLLAB	US								
UNIT	Detai	ls						No. o Hour		Course Objectives	
I	Understanding Institutions a and Concepts of Governa governance- Application of the disaster and risk. Factors affecti disaster governance.	nce- Defir concept of	ning	, (lisa	ster		9		C1	
II	Disaster governance institute multiple scales (international and local scales): United Natifor Disaster Reduction (UNISD Action (HFA) 2005, Sendai For Management Framework.	ol, national ons Internat R), Hyogo F	an iona Fran	nd 1 al S new	r egi trat ork	nal egy for		9		C2	2
III	Policy and institutional arrangements for disaster management in India—Disaster Management Act 2005; National Policy on Disaster Management 2009; Disaster Management Authority responsibilities of government. Important statutes with provisions relevant to Disaster Management							9		C3	3
IV	Role of NGO coordination and community processes in disaster management. Governance challenges in the context of disasters.									C4	
V	Policy and institutional arrangements for disaster management in Tamil Nadu- disaster management authority at state, district and local level.							9 (C:	5
	Tota	l						45	5		

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	Course Outcomes							
Course Outcomes	On completion of this course, students will;	Program Outcomes						
CO1	Have insights on theories of disaster governance	PO2, PO3, PO4						
CO2	Possess knowledge on disaster governance institutions and networks at multiple scales	PO1, PO2, P04, P05						
CO3	Learn and understand policy and institutional arrangements for disaster management in India	PO1, PO2, PO4, PO6						
CO4	Aware on role of NGO and community in disaster management	PO1, PO2, PO4, PO6, PO8						
CO5	Have better understanding on policy and institutional arrangements for disaster management	PO1, PO2, PO4, PO6, PO7, PO8						
	Reading List							
1.	International Journal of Disaster Risk Science, Springer							
2.	International Journal of Disaster Risk Reduction, Elsevier							
3.	Disaster Prevention and Management, Emerald							
4.	International Journal of Geo-Information, MDPI							
	References Books							
1.	Alemanno, A. (Ed.), Governing disasters: the challenge regulation. Edward Elgar Publishing, 2011	es of emergency risk						
2.	Chakrabarty, B., & Bhattacharya, M. (Eds.), The governan USA: Oxford University Press, 2008							
3.	Chatterjee, P, The politics of the governed: reflections on p of the world. Columbia University Press, 2004							
4.	4. Kundu, A., & Dubey, M. (Eds.), India, Social Development Report USA: Oxford University Press, 2006							
North, D, Institutions, institutional change and economic performance, New York: Cambridge University Press, 1990								
6.	Ostrom, E, A Polycentric Approach for Coping with Climat Paper to the 2010 World Development Report (Policy Research Working Paper 5095, 2010	e Change. Background						

	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	3			
CO3	2	3		3		2		
CO 4	3	3		2		3		2
CO 5	3	2		3		3	2	3

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904C	Disaster Preparedness and Decision Making	Elective	3	-	-	-	3	45	25	75	100
	Course (Objectives									•
C1	To familiarize the students on di	To familiarize the students on disaster principles and prepa					arec	lness			
C2	To provide insights on disaster p	lanning and	l en	nerg	enc	y s	ervi	ce sys	stem	ıS	
C3	To throw light on conceptual and	d applied Is	sues	s in	eme	erg	ency	man man	ager	nent	
C4	To elucidate on principles o	f natural	haz	ard	re	duc	ction	, tox	cicol	logy a	ınd
	biohazards in emergency manage										
C5	To create awareness on terrorism			and	COI	nn	nunit	y rela	tion	ıS	
		SYLLAB	US								
UNIT	Details	Details						No. o Hour		Cou Objec	
I	Global and Indian scenario, anthropogenic disasters, risk a Principles and Practice of disasters and management, Disaster Administration/Policy and EmIncident Command Centre, Trail Human Resource Development agency coordination, the human planning, Current trends in disaster.	or disaster preparedness and mitigation- Indian scenario, Managing natural and disasters, risk assessment and analysis, d Practice of disaster response operations ment, Disaster Planning, Public n/Policy and Emergency Management, mand Centre, Training Need Analysis and arce Development Plan, corporate/public nation, the human element in preparedness					C	1			
II	Hazard monitoring, tracking and modeling, Early warning systems, warning protocols, India Disaster Resource Network, Environmental Hazards, public health aspects of disaster management and emergency services systems, urban hazards and disasters: an introduction to disaster planning, fire services preparedness, Emergency Sanitation/Shelter environments.						9		C	2	
III								9		C	3

	Logistic support system, Computer Applications in Emergency Management.					
IV	Principles of natural hazard reduction, Toxicology and Biohazards in Emergency Management: Critical Infrastructure and Emergency Management ,Emergency Preparedness, Response, and Planning for Hazardous Materials,,Contingency Planning, Contingency Planning for Business and Industry, International Disasters.	9	C4			
V	Terrorism Preparedness and Community Relations: Emergency Management for Terrorism, WMD, and other contemporary Issues, Incident Management Systems and Emergency Operations Center, Community Emergency Response Team, Community Relations for Environmental and Emergency Managers,	9	C5			
	Total	45				
	Course Outcomes					
Course Outcomes	On completion of this course, students will;	Program	n Outcomes			
CO1	Possess the knowledge on disaster principles and preparedness	PO1, 1	PO2, PO4			
CO2	Have insights on disaster planning and emergency service systems		PO2, PO4, P08			
CO3	Learn about conceptual and applied Issues in emergency management	PO1, PO	02, PO4, P08			
CO4	Possess knowledge on principles of natural hazard reduction, toxicology and biohazards in emergency management		PO2, PO4, 06, P08			
CO5	Have a better understanding on terrorism preparedness and community relations		PO2, PO4, 05, P08			
	Reading List					
1.	Difficult Decisions in Disaster Risk and Environmental M Issue – MDPI	Manageme	ent – Special			
2.	Decision Support Systems for Disaster Management – JSTC)R				
3.	Journal of Natural Disaster Science, J-Stage					
4.	Disasters – Wiley Online Library					
References Books						
1.	Goel S.L. and Kumar Ram, Disaster Management, Deep and Dee					
2.	Parasuraman S., India Disasters Report: Towards a Policy Initia Press, 2004					
3.	Collins Larry R. and Schneid Thomas D., Disaster Manager Taylor and Francis 2000	ment and	Preparedness			
4.	Living With Risk: A global Review Of Disaster Reduction I United Nations, 2004.	Initiatives	2004 Vision,			
5.	Arnold, Margaret and Kreimer, Alcira (eds.), "Manag	ing Disas	ster Risk in			

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	Emerging Economies", Disaster Risk Management Series No. 2, World Bank, Washington, D.C., 2000.
6.	Nidhi Gauba Dhawan, Ambrina Sardar Khan - Disaster Management And Preparedness-,CBS Publishers & Distributors,-2012

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

								S		Mark	KS .			
Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total			
934E904D	Ecosystems and Habitat	Elective	3	-	-	-	3	45	25	75	100			
		Objectives												
C1	To provide insights into ecosyste													
C2	To throw light on aquatic ecosys													
C3	To familiarize on the types of te													
C4	To create awareness of nature co			s in	Ind	lia								
C5	To elucidate on Conservation vs													
		SYLLAB	US					N.T.	e					
UNIT	Detail	S						No. o Hou		Cou Objec				
I	Introduction to ecosystems and habitats- definition, classification, similarities and differences. Introduction to Ecology - cycling of materials; water, carbon, nitrogen and phosphorus. Trophic pyramids and food webs; Alterations of ecosystem function: acid rain, nuclear winter, global warming and ozone hole, origin of life on							g of materials; water, carbon, nitrogen Trophic pyramids and food webs; osystem function: acid rain, nuclear			1			
II	Aquatic ecosystem and hab hydrosphere – hydro- cyc subdivisions – Freshwater (river Estuarine and marine ecosystem	cle- aqua rs and lakes	tic	sy	ste	ms-		9		C2	2			
III	Terrestrial Ecosystems: Tropical forest types- Rain forests and monsoon forests semi-evergreen, deciduous forests, tropical dry evergreen forests and mangroves. Animal life: Richness, diversity and carrying capacity. Niches in the forests and their utilization by animals.							9		C	3			
IV	Nature conservation in India: Legal measures- Brief history of forest conservation in India; Forest Rights Act 2006, Wildlife Protection Act 1972, Environmental Protection Act 1986, Convention on International Trade in Endangered Species (CITES); Conservation vs. development: Costal Regulation Zone Notification (CRZ) 1991 and subsequent amendments, CRZ Notification 2011 and CRZ Notification 2019.							Nature conservation in India: Legal measures- Brief history of forest conservation in India; Forest Rights Act 2006, Wildlife Protection Act 1972, Environmental Protection Act 1986, Convention on International Trade in Endangered Species (CITES); Conservation vs. development: Costal Regulation Zone Notification (CRZ) 1991 and subsequent amendments, CRZ		history of forest conservation in India; Forest Rights Act 2006, Wildlife Protection Act 1972, Environmental Protection Act 1986, Convention on International Trade in Endangered Species (CITES); Conservation vs. development: Costal Regulation Zone Notification (CRZ) 1991 and subsequent amendments, CRZ			C-	4
V	Conservation vs. livelihood: Society Odisha- Gahirmatha Marine W	ea Turtle C	ons					9		C:	5			

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	Mannar Marine National Park and Biosphere Reserve in								
	Tamil Nadu, Mudumalai National Park and Wildlife								
	Sanctuary.								
	Total	45							
Course Outcomes									
Course Outcomes	Program	n Outcomes							
CO1	Have insights on ecosystems and habitats	PO	2, PO8						
CO2	Possess knowledge on aquatic ecosystem and habitat	PO2,	PO5, PO8						
CO3	Have better understanding on the types of terrestrial ecosystems		PO5, PO8						
CO4	Have awareness of nature conservation Acts in India	PO2, PC	3, PO4, PO8						
CO5	Have better understanding on Conservation vs. livelihood.	PO2, PC	93, PO4, PO8						
	Reading List								
1.	Protection and Management of Species, Habitats, Ecosys Special Issue - MDPI	tems and	Landscapes,						
2.	Ecosystems and People, Taylor & Francis								
3.	Frontiers in Ecology and the Environment - ESA								
4.	Journal of Ecology – British Ecological Society								
	References Books								
1.	Singh, J.S., Singh, S.P and S. R. Gupta, Ecology, Envir Conservation, New Delhi: Anamaya Publications, 2006	ronment a	and Resource						
2.	Krebs, C.J, Ecology: The Experimental Analysis Abundance, Benjamin Cummings Publications, 2008	of Distri	bution and						
3.	Miller. G.T, Environmental Science. Thomson, California. U	JSA, 2004	1						
4.	Mills D.H. An Introduction to Freshwater Ecology, Edinburg: Liver & Royd								
5.	5. Russell K. Monson, Ecology and the Environment. New York: Springer Dordrecht, Heidelberg, 2014								
6.	Chapman, J.L & M.J. Reiss, Ecology: Principles and Ap University Press. UK, 1998	oplications	. Cambridge						

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

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904E	Environmental Economics and Management	Hective 3 - - -								75	100
		Objectives								ı	I.
C1	To familiarize the students on ec	onomics an	d e	nvir	onn	nen	t				
C2	To provide insights on environm	ental polici	es a	nd i	Issu	ies					
C3	To throw light on approaches to										
C4	To elucidate on common propert										
C5	To create awareness on environment			nts	and	en	viro	nmen	talis	m	
		SYLLAB	US								
UNIT	Details	S						No. o Hou		Cou Objec	
I	Introduction : Economics and flow model; Material balance meaning; different paradigms.					ır		9		C1	
II	Environmental Policies and Issues: Environmental Externalities – public goodsand private goods; Design of Environmental Policy— Quantity Based Instruments — Market based Instruments — Pigouvian tax and Subsidy Approach, Emission/effluent charges; Non-Market Instruments: Command and Control — Mixed Instruments — Marketable permits — Tradeable Pollution Permits — Bargaining Solution — Property rights and Coase Theorem.							9		C	2
III	Approaches to Environmenta Contingent Valuation Method Hedonic Pricing Method—Socia	, Travel Co	st M			is.		9		C	3
IV	Hedonic Pricing Method– Social Cost Benefit Analysis. Common Property Resource (CPR) Management: Tragedy of the Commons-Hardin; Governing the Commons- Elinor Ostrom; CPRs and Rural Poor in India.							9		C4	
V	Environmental movements and environmentalism: Environmentalism of the poor. Grass Root Movements- Chipko Movement, Save Silent Valley Movement, Narmada Bachao Andolan.									C:	5
Total											
	Course (Outcomes									

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Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Possess the knowledge on on economics and environment	PO2, PO8
CO2	Have insights on environmental policies and Issues	PO2, PO5, PO8
CO3	Possess knowledge on approaches to environmental valuation	PO2, PO5, PO8
CO4	Learn about common property resource management	PO2, PO3, PO4, PO8
CO5	Have better understanding on environmental movements and environmentalism	PO2, PO3, PO4, PO8
	Reading List	
1.	Journal of Environmental Economics and Management, Else	evier
2.	Environmental Economics and Management, Frontiers	
3.	Environmental and Resource Economics, Springer	
4.	Review of Environmental Economics and Policy, The University Journals	ersity of Chicago Press
	References Books	
1.	Baviskar, Amita, In the Belly of the River: Tribal Confliction the Narmada Valley, New Delhi: Oxford University Press	=
2.	Callan & Thomas, Environmental Economics and Manage and Applications, (6 th ed.), Cengage Learning, 2013	ement: Theory, Policy
3.	Hanley, Nick & Edward Barbier, Pricing Nature: Cost- Environmental Policy. Edward Elgar, 2009	-Benefit Analysis and
4.	Kolstad, Intermediate Environmental Economics International:Oxford University Press, 2011	(2 nd ed.), London
5.	Tietenberg, Tom & Lewis, Lynne, Environmental as Economics.Routledge. UK, 2011	nd Natural Resource
6.	Venkatachalam L, Economic Valuation of Ecosystem Servi Ousteri wetland, Puducherry, Research Report submitted to Institute of Development Studies, Chennai, 2015	

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

								S		Mark	S
Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904F	Principles of Remote Sensing and GIS	-	3	45	25	75	100				
	Course (Objectives									
C1	To provide insights to the concep	•	_					ensin	g		
C2	To throw light on data acquisition	n types and	cha	arac	teri	stic	S				
C3	To familiarize on the satellite da	ta products	and	the	ir c	hara	acte	ristic	S		
C4	To create awareness on GIS and	developme	nt o	f G	PS						
C5	To elucidate on GIS software an	d Geo-datal	base	es							
		SYLLAB	US								
UNIT	Details	S						No. o Hour		Cou Objec	
I	development, concept and programment of General Cartography, Types of cartography, Map composite Electromagnetic Radiation (EM its properties, EMR waveler applications, Atmospheric wind with matter, Spectral signatures.	Electromagnetic Radiation (EMR) - EMR Spectrum and its properties, EMR wavelength regions and their applications, Atmospheric windows, Interaction of EMR								C	1
II	Data Acquisition : Platforms — types and their characteristics, Satellites and their characteristics — geostationary and sun-synchronous, Earth Resources Satellites -LANDSAT, SPOT, IRS, IKONOS satellite series, High Resolution Satellites- Geoeye; Cartosat.							9		C	2
III	Meteorological satellites – INSAT, NOAA,GOES. Data analysis: Satellite data products and their characteristics, Image processing, Data pre-processing, Atmospheric, Radiometric, Geometric corrections, Basic principles of visual interpretation, Equipment for visual interpretation.							9		C:	3
IV	Basic Concepts: mapping concepts, definition of GIS, Components of GIS, Variables - points, lines, polygon, Areas of GIS application, Advantage and Limitation of GIS, Spatial and attribute data. Global Positioning System (GPS)- Definition- Development of GPS, GPS - Satellite Systems, GPS Satellite Navigation System and their Segments, Applications of GPs.									C ²	4
V	Data acquisition and analysis:	GIS Softv	vare	e, O	pen			9		C:	5

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	source GIS software, fileorganization and formats,									
	Geo-database, Rectification, Digitization and map									
	composition.									
	Total	45								
Course Outcomes										
Course Outcomes	On completion of this course, students will;	Program	n Outcomes							
CO1	Have insights to the concepts and principles of remote sensing	PO1,	PO2, PO4							
CO2	Possess knowledge on data acquisition types and characteristics	PO1,	PO2, PO4							
CO3	Have better understanding on the satellite data products and their characteristics		PO2, PO4, PO5							
CO4	Learn about on GIS and development of GPS		PO2, PO4, PO6, PO7							
CO5	Learn and understand GIS software and Geo-databases		PO2, PO4, PO6, PO8							
	Reading List									
1.	Journal of Remote Sensing & GIS, Walsh Medical Media									
2.	Journal of Remote Sensing GIS & Technology, MAT Journ	als								
3.	Remote Sensing, MDPI									
4.	Transactions on Geoscience & Remote Sensing, IEEE									
	References Books									
1.	Drury, S.A., Image Interpretation in Geology, UK: Allen an	d Unwin,	1987							
2.	Gibson, P.J, Digital Image Processing. London: Routledge	Publication	n, 2000							
3.	Gupta, R.P, Remote Sensing Geology, Germany: Springer	Verlag, 199	90							
4.	Joseph, G, Fundamentals of Remote Sensing, Hyderabad Press, 2004	, India: U	niversities							
5.	Campbell, J, Introduction to Remote Sensing, London: Tayl	lor & Fran	cis, 2002							
6.	Anji Reddy, M, Textbook of Remote Sensing and Geograph Information System, Hyderabad: B.S. Publication, 2008	nic								

	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	3			
CO 4	3	2		2	3	3	3	
CO 5	2	3		3	3	2		3

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E904G	Crisis Management	Elective	3	•	•	•	3	45	25	75	100	
		Objectives										
C1	To familiarize the students on di							geme	nt			
C2	To provide insights on identifying				itua	tior	ıs					
C3	To throw light on crisis manager		edn	ess								
C4	To elucidate on disaster recovery											
C5	To create awareness on the impo	ortance of r	nan	agii	ng t	he e	ecor	nomy	and	essent	tial	
	services in emergencies	CVIIIAD	TIC									
		SYLLAB	US				<u> </u>	No. o	· F	Corr	MCO	
UNIT	Detail							Hour		Cou Objec		
	Disasters Issues and Crisis Ma											
I	and Overview of risks and dange	ers, Impact o	of g	loba	aliza	atio	n	9		C1		
	on crisis and mass disasters.	. D'					_					
11	Identifying Potential Crisis Situ					ed		0			CO	
II	case studies to analyze the potenti	-						9		C2		
	Prepare a foundation of a sound cri Crisis Management Preparedn					n	-					
III	Training and Testing, Crisis com				pia	11,		9		C:	3	
111	management, Crisis operation guide		Suc	200				,				
	The Disaster Recovery Planning		ev n	nana	ıgen	nent					_	
IV	teams, National and International							9		\mathbf{C}^2	4	
3 7	Managing the economy and esse			• •				0		- C	_	
V	emergencies, Managing the med				scie	nce.		9		C:	5	
	Total							45				
	Course	Outcomes										
Course Outcomes	On completion of this course, stu	idents will;]	Progi	ram	Outco	omes	
CO1	Possess knowledge on disast management	ers issues	ar	nd	cris	sis		РО	1, P	O2, PC)4	
CO2	Have insights on identifying potential crisis situations							РО	1, PO	D2, PC 08) 4,	
CO3	Possess knowledge on crisis management preparedness PO1, PO2, PO4,									, P08		
	Learn about disaster recovery planning PO1, PO2, PO4,											
CO4	PO6, P08											
CO5	Have better understanding on managing the economy PO1, PO2, PO4,)4,	
	and essential services in emerger								PO5	5, P08		
	Readi	ng List										

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

1.	Journal of Contingencies and Crisis Management, Wiley Online Library							
2.	Crisis Response Journal, CRJ							
3.	nternational Journal of Crisis Response and Management, IGI Global							
4.	Disaster Recovery Journal, DRJ							
	References Books							
1	Mutchopadhyaya, A.K, Crisis and disaster management tuberlance and							
1.	aftermath", Newage International Publications, New Delhi, 2005							
	Manager's Guide to Crisis Management, Jonathan Bernstein, Briefcase							
2.	Books, 2011							
2	Crisis Management - Resilience and Change, Sarah Kovoor-Misra,							
3.	Sage Publications, 2019							
4	Crisis Management - Master the Skills to Prevent Disasters - Harvard Business							
4.	Press, 2004							
5.	Crisis Management: How to develop a powerful program, Regina Phelps, 2018							
6	Crisis Management - Planning for the Inevitable - Steven Fink,							
6.	Backinprint.com, 2000							

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

		_						S		Mark	S	
Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E904H	Geology and Meteorology	-	3	45	25	75	100					
		Objectives										
C1	To provide insights into geolog											
C2	To throw light on rock formation											
C3	To familiarize on types of volca											
<u>C4</u>	To create awareness on the imp		ruct	ura	l ge	olo	gy					
C5	To elucidate on objectives of m		TIC									
		SYLLAB	US					NI ₂	r	Con		
UNIT	Detai	ls						No. o				
I	Geology – Introduction, sub-d other branches of science, Easurface features, continents, evaluation.	orth, Origin, ocean basin	ag s a	e, r nd	najo the	or re		Hours 9		Objectives C1		
II	Rock formation, types of rock, by rivers, wints and glaciers a forms.	nd their ass	ocia	ited	lar	nd		9		C2		
III	Types and distribution of Vo quacks, earth quack belt, zones wave study, earth internal const	of earthqua						9		СЗ		
IV	Structural geology: Definition Geology: primary and secondar non-diastrophic and diastrophic stress and strain; Mohr's str structure: planer and linear str lineation foliation fold faults an	ry Structure; c structure; ress circle; ucture; Basi	; Co Co Dia	nce nce astro	ept o pt o oph	of of ic		9		C ²	4	
V	Meteorology: Definition, and Scope, Aims and Objectives of Meteorology. Primary Meteorological Parameters and their Measurement—Temperature, Wind Direction and Wind Speed. Secondary Meteorological Parameters and their Measurement—Humidity, Relative Humidity, Absolute Humidity, Pressure and Solar Radiation. Collection and Analysis of Wind Data, Wind Roses, Plotting of Wind Roses and Pollution Roses. Effects of Meteorological Parameters on Air Pollution.									C	5	
	Tota	1						45				

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

	Course Outcomes	
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Have insights into geology and its sub-divisions	PO2, PO8
CO2	Possess knowledge on rock formation and types of rocks	PO2, PO5, PO8
CO3	Learn about the types of volcanos and earthquakes	PO2, PO5, PO8
CO4	Have better understanding on structural geology	PO2, PO3, PO4, PO8
CO5	Learn and understand the objectives of meteorology	PO2, PO3, PO4, PO8
	Reading List	
1.	Geology and Meteorology, Nature	
2.	Geoscience Data Journal, Royal Meteorological Society	
3.	International Journal of Geography, Geology and Publications	Environment, AkiNik
4.	Journal of Geological Research, Open Access	
	References Books	
1.	Berry,B.J.L. and Chorley, P.J. Atmosphre weather and clim and new york, 1993	ate, routledge, London
2.	Critchfield, J.S. General climatology prentice Hall, India, 1	1993
3.	Peterson, Introduction to meteorology McGraw Hill Book L	ondon, 1969
4.	General Meteorology: H. R. Byers, Tata McGraw Hill Publi	cations, New Delhi
5.	General Meteorology: H. R. Byers (Tata Mc Grew – Hill Pu	iblications, New Delhi)
6.	Meteorology: Dr. S.R. Gadekar, Agromate Publishers, Nagr	our 20 00

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

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E904I	Disaster Mitigation	Elective	3	-	-	-	3	3 45 25 75 10				
	Course Objectives											
C1	To familiarize the students on understanding disaster risk and its implication for sustainable development											
C2	To provide insights on develor framework	opment pla	nni	ng	aloı	ng	with	n the	ins	stitutio	nal	
C3	To throw light on prospective development	e disaster	risl	x n	nana	iger	nen	t and	l su	ıstainal	ole	
C4	To elucidate on mitigation strate	gies										
C5	To create awareness on the appro			ter r	isk	red	ucti	on				
		SYLLAB	US						_			
UNIT	Detail	s						No. o Hour		Cou Objec		
	Understanding disaster risk	and its in	ıpli	cati	on	for		11041	3	Objec	uves	
I	sustainable development: Ris social, economic and environ Disaster risks in the rural/unboundary contexts; Disaster risk	k and link onmental v rban settin	age vuln g	s b eral and	etw bilit tra	een ies; ans-		9		C1		
II	Development planning along framework and processes invo- village/ town/ city/ district/ s Planning in neoliberal framework as driven by bilateral and multila	olved in thate/ national rk and its c	ne onal ritio	con pla c; pl	text anni	of ing;	·	9		C2	2	
III	as driven by bilateral and multilateral agencies. Disaster risk : Challenges and possibilities for development planning; Prospective disaster risk management and sustainable development; People Centre development and risk mitigation: Social capital for DRR, Community led planning process, participatory planning.									C	3	
IV	Mitigation strategies: Coping strategies- flood, famine, earthquake, drought, desertification. Food security and coping strategies. Livelihood, employment and coping strategies.									C4	4	
V	Approaches to disaster ri Mainstreaming DRR, Ecosyste programmes and social protect approaches to DRR and Key leg	ood		9		C:	5					
	Total							45				

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	Course Outcomes								
Course Outcomes	On completion of this course, students will;	Program Outcomes							
CO1	tts implication for sustainable development Have insights on development planning along with the PO1 PO2 PO								
CO2	Have insights on development planning along with the institutional framework	PO1, PO2, PO4, P08							
CO3	Learn and understand prospective disaster risk management and sustainable development	PO1, PO2, PO4, P08							
CO4	Learn about on mitigation strategies	PO1, PO2, PO4, PO6, P08							
CO5	Have better understanding on the approaches to disaster risk reduction	PO1, PO2, PO4, PO5, P08							
	Reading List								
1.	International Journal of Disaster Risk Reduction, Elsevier								
2.	International Journal of Disaster Risk Science, Springer								
3.	Journal of Emergency Management and Disaster Communic	cations, Open Access							
4.	Disaster Prevention and Management, Emerald								
	References Books								
1.	Pelling, Mark (eds), Natural Disasters and Development in Routledge. New York, 2002	a Globalizing World.							
2.	Environmental Guidance Note for Disaster Risk Reduction for Human Security, International Union for Conservation Resources, 2009								
3.	Kundzewicz, & Zbigniew W, Non-structural Flood Protect USA: Water International, 2009	ion and Sustainability,							
4.	Pradeep Sahni, Alka Dhameja, Uma Medury, Disaster Mand Reflections, PHI, 2004	litigation: Experiences							
5.	R B Singh, Natural Hazards and Disaster Manageme Mitigation, Rawat Publications, 2006	•							
6.	Arnold, Magret, Development for disaster reduction: the re Australian Journal of Emergency Management, 2002	ole of the World Bank.							

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

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total	
934E904J	Geoinformatics in Disaster Mitigation	Elective	3	-	-	-	3	45	25	25 75 100		
	Course					1						
C1	To provide insights on the Impo	for o	disa	ster n	nitig	ation						
C2	To throw light on flood, cyclon-											
C3	To familiarize on drought and f											
C4	To create awareness on the po	otential of R	RS a	and	GI	S a _l	ppli	cation	is in	disas	ter	
	mapping To also ideas on Constitution Data India	C 4 4	- C-	- :1:	4-4-	.1:	1					
C5	To elucidate on Spatial Data Int	SYLLAB		icili	tate	a1s	sast	er ma	nage	ement		
			US					No. o	ıf	Cou	rca	
UNIT	Detai	ls						Hour		Objec		
I	mitigation, forecast, foreware preparedness with respect Earthquake, volcanoes and late earthquake prediction and post for earthquake disaster management, RS of geothermal fit volcano hazard management, I monitoring and management of	preparedness with respect to different disasters - Earthquake, volcanoes and landslides: RS and GIS in earthquake prediction and post-quake rehabilitation, GIS for earthquake disaster management, mapping tectonic features, RS of geothermal field, mapping lava flows, volcano hazard management, RS and GIS for zonation,								C1		
II	Flood, cyclone and Tsunami: Flooding potential zonation mapping, flood hazard assessment, ice cover monitoring and its role in flooding; Cyclone monitoring using INSAT, ERS-1, NOAA and DMSP satellites, RS and GIS in cyclone mapping and mitigation, damage assessment, warning; RS and GIS for Tsunamic warning, damage assessment and rehabilitation.							9		C2	2	
III	Drought and Fire: Delineation of drought vulnerable areas, drought monitoring, GIS based drought analysis, desertification factors, monitoring vegetative biomass; 9 C3 Forest Fire – causes, management using GIS, risk zonation mapping, forecasting system								3			
IV	Data management: Hazard Risk assessment and vulnerab - Land use planning and r development, Potential of RS disastermapping- Disaster man	ility, Damag egulation for and GIS a	ge a or a ppl	asse sust	ssn aina	nent able	:	9		C4		

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

V	Spatial Data Infrastructure (SDI) to facilitate Disaster Management, GIS based Decision Support Systems (DSS) for disaster management, Satellite surveillance for disaster mitigation.	9	C5								
	Total	45									
	Course Outcomes										
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes								
CO1	Have insights on the Importance of RS and GIS for disaster mitigation	PO1, 1	PO2, PO4								
CO2	Possess knowledge on flood, cyclone and Tsunami	PO1, 1	PO2, PO4								
CO3	Have better understanding on drought and fire and management using GIS	,	PO2, PO4, PO5								
CO4	Possess knowledge on potential of RS and GIS applications in disaster mapping		PO2, PO4, PO6, PO7								
CO5	Learn and understand Spatial Data Infrastructure to PO1 PO2 PO4										
	Reading List										
1.	Disaster Management and Geospatial Information, MDPI										
2.	Natural Hazards and Earth System Sciences, European Geos	sciences U	nion								
3.	International Journal of Geo-Information, MDPI										
4.	Geoscience Data Journal, Royal Meteorological Society										
	References Books										
1.	Roy, P.S, Natural Disaster and their mitigation. Published Remote Sensing (IIRS), 2000	by India	n Institute of								
2.	Bhattacharya, Tushar, Disaster Science and Management. 2012	, USA: M	IcGraw Hill,								
3.	Sisi Zlatanova& Andrea Fabbri Jonathanli, Geometrics solu Disaster management, Springer Verlag, 2007	tions for									
4.	Murthy, D.P.N, Disaster Management, India: Deep & Deep	Publication	on, 2008								
Orhan, R., Backhaus, P.,Boccardo, S.,Zlatanova, Geoinformation for Disaster and Risk Management Examples and Best Practices, Joint Board of GeospatialInformation Societies and United Nations Office for Outer Space Affairs, Denmark, 2010											
6.	Singh, R.B, Space Technology for Disaster Monitoring and in India, International Center for Disaster-Mitigation Engine										

	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				
CO3	2	3		3	2			
CO 4	3	2		2	3	3	3	
CO 5	2	3		3	3	2		3

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904K	Climate Change and Disaster Management	Elective	3	-	-	-	3	45	25	5 75 10	
	Course Objectives									u.	I.
C1	To familiarize the students on gl	end	s ar	ıd imj	pacts						
C2	To provide insights on impact of	climate ch	ang	e in	agr	icul	ltur	e			
C3	To throw light on adaptation and			es							
C4	To elucidate on adaptation in Co										
C5	To create awareness on the		e of	f g	ove	rnaı	nce	and	poli	cies	for
	adaptation in disaster risk manag										
		SYLLAB	US						<u> </u>		
UNIT	Detail	S						No. 0		Cou	
	Clabal alimata abanga tuanda	and impact	ta. N	100	i	~ of		Hou	TS	Objec	tives
I	adaptation to climate change- changes - Linking adaptation to at the international level - Gov adaptation - Integrating adapt planning - Moving ahead on ada in India.	Global climate change trends and impacts: Meaning of adaptation to climate change- Vulnerability to climatic changes - Linking adaptation to development -Adaptation at the international level - Governance and policies for adaptation - Integrating adaptation into development planning - Moving ahead on adaptation in India								C1	
II	Adaptation in Agriculture: In in agriculture- Themeaning of a Governance and policies for ada Adaptation options in agriculture and mitigation.	daptation in a	n ag agric	grici culti	ıltu: ure-	re-		9		C2	2
III	Adaptation and water resources: Impact of climate change in water resources- The meaning of adaptation in water resources management- Governance and policies for adaptation in water resources management-Adaptation options in water resources management-Linking adaptation and mitigation.							9		C	3
IV	Adaptation in Coastal Zones: Climate change impact in coastal zones- The meaning of adaptation in coastal zones- Governance and policies for adaptationin coastal zones- Adaptation options in coastal zones- Linking adaptation and mitigation.									C ²	4
V	Adaptation in Disaster Risk M does climate change impactdisas adaptation in disaster risk manag	ter risks? V	Vha		es			9			5

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	Governance and policies for adaptation in disaster							
	risk management- Adaptationoptions in disaster risk							
	management- Linking adaptation and mitigation.	45						
	Total Course Outcomes	45						
Course	Course Outcomes							
Course Outcomes								
CO1	Possess the knowledge on global climate change trends and impacts PO1, PO2, PO3							
CO2	Have insights on impact of climate change in PO1 PO2 PO3							
CO3	Possess knowledge on adaptation and water resources	PO1, PC	2, PO5, PO8					
CO4	Learn about adaptation in Coastal Zones		PO2, PO8					
CO5	Have better understanding on governance and policies PO1 PO2 PO3 PO							
	Reading List	•						
1.	Economics of Disasters and Climate Change, Springer							
2.	Climate Change and Sustainable Disaster Management, MD	PI						
3.	Disasters – Wiley Online Library							
4.	International Journal of Climate Change Strategies and Man	agement,	Emerald					
	References Books							
1.	Byravan, S. and Sudhir ChellaRajan, An Evaluation of In Plan for Climate Change, IFMR: Chennai, 2012	ndia's Nat	ional Action					
2.	Dubash K.Navroz (ed), India in a Warming World: In Development, Oxford University Press. London, 2019	tegrating	Climate and					
Food and Agricultural Organisation of the United Nations (FAO), Adaptation to climate change in agriculture, forestry and fisheries: Perspective, framework and priorities, 2007								
N Mani, Environment, Climate Change & Disaster Management, New Century Publications, 2017								
5. Alka Chauhan, Pawan Kumar Bharti, Climate Change, Disaster Management and Environment Discovery Publishing House Pvt Ltd, 2016								
6.	Stéphane Hallegatte, Natural Disasters and Climate Ch Perspective, Springer, 2014	nange - A	n Economic					

	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			3
CO 4	3	2						2
CO 5	2	3	3					3

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Subject Code	Subject Name	Category Category Credits Inst. Hours		CIA	External	Total					
934E904L	Psycho-social Ramifications and Resource Mobilization	Elective	3	ı	ı	ı	3	3 45 25 75			100
		Objectives									
C1	To provide insights to identifying socio-psychological Needs in Mass Emergency										ass
C2	To throw light on the training ir	humanitari	an p	rof	essi	ona	lisn	1			
C3	To familiarize on the individual	empowerme	ent								
C4	To create awareness on the im local resilience to disasters			mm	uni	ty b	uilc	ling i	n de	velopi	ng
C5	To elucidate on economic impa										
		SYLLAB	US				-				
UNIT	Detai	ls						No. o Hour		Cou Objec	
I	Identifying Socio-Psychological Needs in Mass Emergency: Global assessment of Needs and Priorities, Area specific requirements, Psychological Characteristics of Disaster Management, Different psychological considerations in natural and man made disasters									C1	
II	Training in Humanita Professionalism and Humanitar support, Long term support, C case analysis.	ian Respons	es,	Sho	rt t	erm		9		C2	2
III	Individual Empowerment: Stumovements of actors negotiating of vulnerability and disaster, Macalculability in handling crisis,	g the conditi	ons	and	l ef	fect	s	9		C	3
IV	Community Empowerment: Community building in developing local resilience to disasters: developing seed leaders, communication networks and personal commitments.								C4		4
V	Operative and Strategic Management: Economic Impact of Disasters, Role of NGOs, Role of Education, Role of Agencies: National and International, The methods and tools for analyzing potential investment decisions in hazard prone areas and alternative development strategies									C:	5
	Tota	l						45			

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	Course Outcomes						
Course Outcomes	On completion of this course, students will;	Program Outcomes					
CO1	Have insights to identifying socio-psychological Needs in Mass Emergency	PO1, PO2, PO4					
CO2	Possess knowledge on the training in humanitarian professionalism	PO1, PO2, PO4					
CO3	Have better understanding on the individual empowerment	PO1, PO2, PO4, PO5					
CO4	Possess knowledge about community building in developing local resilience to disasters	PO1, PO2, PO4, PO5, PO6, PO7					
CO5	Learn and understand economic impact of disasters	PO1, PO2, PO4, PO5, PO6, PO8					
	Reading List						
1.	Review of General Psychology, Sage						
2.	Annual Review of Sociology, Annual Reviews						
3.	American Journal of Sociology, JSTOR						
4.	American Journal of Community Psychology, Springer						
	References Books						
1.	OHO Lerbinger, The Crisis Manager, Facing risk and re- Erlbaum associates, 1986	sponsibility, Lawrence					
2.	Peter, K. Hodgkinson, Copying with Catastrophe, A hand psychological after care. Routledge, 1998	dbook of post disaster					
3.	Horowitz, M, Stress response syndranes, Northvale, N.J. Ar	mson, 1986					
4.	Kazimiera Adamowski, Creating Excellence in Crisis Ca Inc., 1998	re, Johnwiley & Sons					
5.	Katja Hujo, The Politics of Domestic Resource Mo Development, Springer, 2020	obilization for Social					
6.	Girishwar Misra, Psychosocial Interventions for Health and 2018	Well-Being, Springer,					

	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	2			
CO 4	3	2		2	3	3	3	
CO 5	2	3		3	3	2		3

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Subject Code	Subject Name	Category	L	Т	P	O	Credits	Inst. Hours	CIA	External	Total
934E904M	Disaster Economics and Financing	Elective	3	1	1	-	3	45	25	75	100
		Objectives									
C1	To familiarize the students with	n imperfect i	nfo	rma	tior	ı an	d ac	lverse	sele	ection	
C2	To provide insights on impact of										
С3	To throw light on principles for markets							_	he i	nsuran	ice
C4	To elucidate on India's disaster	financing fr	ame	ewo	rk a	ınd	poli	cy			
C5	To create awareness on the role finance			l fir	nanc	cial	inst	itutio	ns ir	ı disas	ter
		SYLLAB	US								
UNIT	Detai	ls						No. o Hour		Cou Objec	
I	Economics of Information- Immarket for lemons- Akerlof's Moral Hazard- Signalling and scost- the Principal-Agent Mode	Todel- Adver creening- Tr	se S	Sele	ctic			9		C1	
II	Impact of Disaster: Humanita impact. Direct and Indirect Cos Intangible Costs. Damage asse Loss and Needs Assessment; Riassessment.	sts; Tangible ssment meth	an nods	d s: D	ama			9		C2	2
III	Risk aversion- Arrow-Lind measure of risk aversion; Disaster risk financing: Market imperfections and catastrophe insurance- Principles for publicintervention in the catastrophe insurance markets- Risk transfer: Alternative risk transfer instruments: Catastrophe bonds, weather derivatives, contingent credit and catastrophe swap.					9		C	3		
IV	India's disaster financing framework and policy. Disaster financing in India- trends and magnitude over the years. Finance Commission- role and functions.					r	9 C4		1		
V	The role of international financial institutions in disaster finance. Disaster and development- disaster and international finance capital in the neoliberal world						9		C5		
	Total							45			

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	Course Outcomes	
Course Outcomes	On completion of this course, students will;	Program Outcomes
CO1	Possess the knowledge on imperfect information and adverse selection	PO2, PO3, PO4
CO2	Have insights on impact of disaster	PO1, PO2, P04, P05
CO3	Possess knowledge on principles for public intervention in the catastrophe insurance markets	PO1, PO2, PO4, PO6
CO4	Learn about India's disaster financing framework and policy	PO1, PO2, PO4, PO6, PO8
CO5	Have better understanding on the role of international financial institutions in disaster finance	PO1, PO2, PO4, PO6, PO7, PO8
	Reading List	
1.	Disaster Risk Financing A Global Survey of Practices and C	Challenges, OECD
2.	Economics of Disasters and Climate Change, Springer	
3.	Review of Environmental Economics and Policy, The Univ Journals	ersity of Chicago Press
4.	International Journal of Humanities Social Science and Access	I Management, Open
	References Books	
1.	Bardhan, Pranab, The Economic Theory of Agrarian Institut Clarendon, 1991	tions, UK:
2.	Benson Charlotte, & Clay Edward, Understanding the Eco Impacts of Natural Disasters, Disaster Risk Management Se PublicFinance and Disasters, World Bank, 2004	
3.	Cunnins, David J and Oliver Mahul, Catastrophe Risk Fina Countries: Principles for Public Action, The World Bank: W	
4.	Eric, C. Jones; Arthur, D. Murphy, A. (Ed), The Political Hazards and Disasters, Altamira Press, USA, 2009	·
5.	Goodwin, Barry K; Vincent H. Smith, The Economics of ODisasterAid. AEI Press. USA, 1995	-
6.	Hochrainer, Stefan, Macroeconomic Risk Management Ag Analysis focussed on Governments in Developing Co Universitat Wien, 2006	

	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	3			
CO 3	2	3		3		2		
CO 4	3	3		2		3		2
CO 5	3	2		3		3	2	3

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Subject Code	Subject Name	Category	L	T	P	O	Credits	Inst. Hours	CIA	External	Total	
934E904N	Preventive Laws In Disaster Management	Elective	3	-	-	-	3	45	25	75	100	
	Ü	Objectives						I		· I	ı	
C1	To familiarize the students with management		f the	un	ion	and	d th	e stat	es in	disas	ter	
C2	To provide insights on Importa management	nt statutes	wit	h pı	ovi	sior	ıs r	eleva	nt to	disas	ter	
C3	To throw light on planning and o	disaster vulr	nera	bili	ty							
C4	To elucidate on local administra		aste	r ris	sk r	edu	ctio	n				
C5	To create awareness of fire safet	•										
		SYLLAB	US									
UNIT	Detail	s						No. o Hour		Cou Objec		
I	Management: Article 246 of the Distribution of legislative and acceptation between the Union and the State following entries of Seventh Schunion List: Entry Nos. 6, 7, 15, State List: Entry Nos. 1, 2, 5, 6, Concurrent List: Entry Nos. 18,	Role of the Union and the States in Disaster Management: Article 246 of the Constitution: Distribution of legislative and administrative powers between the Union and the States with special reference to following entries of Seventh Schedule, Union List: Entry Nos. 6, 7, 15, 22, 53, 54, 55 State List: Entry Nos. 1, 2, 5, 6, 25 Concurrent List: Entry Nos. 18, 19, 29, 36 Functions of designated ministries (MoH as the nodal					•	9		C	1	
II	Important statutes with provisions relevant to Disaster Management: Role of legislations in Disaster Management, Scope of Disaster Management Law with reference to Disaster, Management Bill 2005, Disaster Management Laws in Bihar and Gujarat, Essential Services Maintenance Act, Environment Protection Act, 1986, including Hazardous Substances Rules, Explosives Act, 1872, Explosive Substances Act, 1908, Mines and Minerals (Regulation and Development) Act, 1957, Insecticides Act, 1968, Atomic Energy Act, 1962, Factories Act, 1948, WMD Bill, 2005.						9		C.	2		
III	Planning and disaster vulneral Commission in Disaster Manage bodies (Municipalities and Panch Panchayats: Article 243 G read v	bility: Plant ment, Part I hayati Raj I	IX A	A: l tutio	ons),	,	9		C.	3	

	the Constitution, Municipalities: Article 243 W read with 12th Schedule of the Constitution, Model Town and		
	Country Manning Act, 1960.		
IV	Local Administration and disaster risk reduction: Municipalities Legislations with reference to DMC Act, 1957, Power and functions of local administration with reference to following matters and case studies, Building byelaws: Ahmedabad building collapses in 2001 Gujarat earthquake,	9	C4
V	Fire safety norms: Uphaar Cinema and Tamilnadu School fire tragedies, Municipal services: Plague in Surat, Crowd Management: Satara Stampede, NOC for industrial undertakings: Bhopal Gas Tragedy	9	C5
	Total Course Outcomes	45	
Course	Course Outcomes	1	
Outcomes	On completion of this course, students will;	Progran	n Outcomes
CO1	Possess the knowledge on role of the union and the states in disaster management		PO2, PO4
CO2	Have insights on Important statutes with provisions relevant to disaster management	I	PO2, PO4, P08
CO3	Possess knowledge on planning and disaster vulnerability		02, PO4, P08
CO4	Learn about local administration and disaster risk reduction		PO2, PO4, 06, P08
CO5	Have better understanding on fire safety norms		PO2, PO3, PO5, P08
	Reading List		
1.	Disaster Management in India, Ministry of Home Affairs, G		
2.	International Journal of Humanities Social Science and Man Access	agement,	Open
3.	The Handbook on Law and Disaster Risk Reduction, Internated Cross and Red Crescent Societies (IFRC)	ational Fed	leration of
4.	Disaster Prevention and Management, Emerald		
	References Books		
1.	Dr. Priya R. Futane, Law Relating to Disaster Management 2019	, Regal Pu	blications,
2.	Prakash V. Dhopatkar, The Disaster Management Act, 2005 Regulations and Notifications with Special Reference to CO Management Act, 2005, Notion Press, 1st Edition, 2021	VID-19: I	Disaster
3.	Lexis, The Disaster Management Act, 2005- Bare Act, Univ 2021	versal/Lexi	sNexis,
4.	Pradeep Sahni, Alka Dhameja, Uma Medury, Disaster Mitig and Reflections, PHI, 2004	gation: Exp	periences

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5.	R B Singh, Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, 2006
6.	Chakrabarty, B., & Bhattacharya, M. (Eds.), The governance discourse: a reader, USA: Oxford University Press, 2008

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

		_						S		Mark	S
Subject Code	Subject Name	Category	L	Т	P	O	Credits	al	CIA	External	Total
934E904O	Disaster Response	Elective	3	-	ı	-	3	45	25	75	100
		Objectives									
C1	To provide insights to the studies response management	dents on bes	st p	ract	ices	s in	rel	ief op	erat	ions a	nd
C2	To throw light on the humanitan	rian supply c	hai	n m	ana	gen	nent	syste	m.		
C3	To familiarize on coordination			nse							
C4	To create awareness of quick di										
C5	To elucidate on managing relief			rec	ove	ry.					
		SYLLAB	US								
UNIT	Detai	ls						No. o Hour		Cou Objec	
I	Key Response functions -Warning and public evacuation, Post Disaster Need Assessment, Estimation of basic needs- Food, Water, Health, Shelter etc., Concept of Relief- policy, relief delivery and management. Standards and Best Practices in Relief operations-SPHERE standards. Response Management - Emergency Planning, Coordination, Information management, Resource management, Contingency planning, Business Continuity Plans.							9		C	1
II	Supply Chain Management, Logistics and Logistics functions. Five Key Building Blocks (Human Resources, Knowledge Management, Logistics, Financial Resources, Community). The humanitarian supply chain management system, its distinctiveness, Principles. Management of relief material and maintenance of essential services. Characteristics of Humanitarian Supply Chain and flows.						9		C	2	
III	Coordination in Disaster Response: Disaster response organization, Disaster response & administration - Central, State, District and Local, Disaster Response: Policy & Other organization, Role of multiple stakeholders in Disaster Response NDRF, SDRF, ITBP, CRPF, SRPF, EMS.							9		C.	3

IV	Quick Disaster Response: First responder, medical first aid, life saving techniques, Golden time. Search & Rescue equipment- Search & Rescue equipment for different disasters, its use, procurement, maintenance, management & other teams.	9	C4			
V	Individual and Group behaviour, Psychological Response, Trauma & Stress Management, Rumour & Panic Management Relief measures, Minimum standards of relief, managing relief, Funding relief, Recovery.	9	9 C5			
	Total	45				
	Course Outcomes					
Course Outcomes	On completion of this course, students will;	Progran	n Outcomes			
CO1	Have insights to the students on best practices in relief operations and response management	PO2, 1	PO3, PO4			
CO2	Possess knowledge on the humanitarian supply chain management system.	PO1, PC	02, P04, P05			
CO3	Learn about coordination in disaster response		PO2, PO4, PO6			
CO4	Possess the knowledge on quick disaster response	,	PO2, PO4, 5, PO8			
CO5	Have better understanding on managing relief, funding relief, recovery.		PO2, PO4, PO7, PO8			
	Reading List	•				
1.	Disaster Management & Response, Elsevier					
2.	International Journal of Disaster Response and Emerger Global	ncy Mana	gement, IGI			
3.	Crisis Response Journal, CRJ					
4.	International Journal of Crisis Response and Management, I	GI Global				
	References Books					
1.	Chopra, S., Meindl, P. and Kalra, D.V, Supply Chain Malanning and Operation, 2007					
2.	Goel S.L. and Kumar Ram, Disaster Management, Deep a 2001	and Deep	Publications,			
3.	Bollin, C. &Khanna, S, "Review of Post Disaster Record Methodologies", Report commissioned by UNDP, 2007	very Need	l Assessment			
4.	Collins Larry R and Schneid Thomas D. Disaster Management and Preparedness					
5.	David A. McEntire, Disaster Response and Recovery: Stra Resilience, Wiley; 2nd edition, 2015	ategies an	d Tactics for			

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6	Bowersox, J.D and Closs, D.J, Logistical Management: The integrated supply
0.	chainprocess, New Delhi: Tata McGraw Hill, 2008

	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	3			
CO 3	2	3		3		2		
CO 4	3	3		2		2		2
CO 5	3	2		3		3	2	3

								$\mathbf{\tilde{s}}$		Marks		
Subject Code	Subject Name	Category		Т	P	О	Credits	Inst. Hours	CIA	External	Total	
934E904P	Disaster Recovery	Elective	3	-	-	-	3	45	25	75	100	
		Objectives										
C1	To familiarize the students on concepts of recovery, rehabilitation and reconstruction											
C2	To provide insights on recovery context; competing values in models of recovery-											
C3	To throw light on elements of recovery plan											
C4	To elucidate on mitigating disaster risk during recovery											
C5	To create awareness of disaster			sses								
		SYLLAB	US						_			
UNIT	Deta	ils						No. o Hour		Course		
I	Concepts of Recovery, Rehabilitation and Reconstruction- Impact of Disaster: Societal changes-displacement; livelihood; infrastructural; public health; environmental changes; political and organizational changes; psychological impact; changes in business environment Recovery context; competing values in models of									Objectives C1		
II	recovery-restore existing or reimagined community, Challenges in recovery processes. Phases of Recovery. Laws and Policies.									C	2	
III	Elements of recovery plan. Community participation in planning process. Role of planning experts, community leaders and other interest groups. Role of NGO, CBO and FBO in recovery process, Role of Media.									C3		
IV	Mitigating disaster risk during recovery- land use, livelihood, risk assessment methods; choices under uncertainty. Financing of recovery projects, Recovery management approaches- centralized versus decentralized, community as participants.									C4		
V	Case studies of disaster recovery processes: Indian Ocean Tsunami 2004, Gaja Cyclone 2018, Kerala flood 2018.									C5		
	Total									C5		

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Course Outcomes									
Course Outcomes	On completion of this course, students will; Program Outcomes								
CO1	Possess the knowledge on concepts of recovery, rehabilitation and reconstruction PO1, PO2, PO4								
CO2	Have insights on recovery context; competing values in models of recovery- P08 PO1, PO2, PO4, P08								
CO3	Possess knowledge on elements of recovery plan PO1, PO2, PO4, PO								
CO4	Learn about mitigating disaster risk during recovery PO1, PO2, PO4, PO6, P08								
CO5	Have better understanding on disaster recovery processes	PO1, PO2, PO4, PO5, P08							
Reading List									
1.	<u> </u>								
2.	International Journal of Disaster Recovery and Business Continuity, SERSC								
3.	International Journal of Disaster Response and Emergency Management, IGI Global								
4.	Journal of Emergency Management and Disaster Communic	cations, Open Access							
	References Books								
1. Amaratunga, D. and Haigh, R, (eds) Post Disaster Reconstruction of the Built Environment, Wiley-Blackwell, 2011									
2.	David A. McEntira Disaster Response and Recovery: Strategies and Tactics for								
3.	Colling Larry R and Schneid Thomas D. Disaster Management and Preparedness								
4.	Goel S.L. and Kumar Ram, Disaster Management, Deep and Deep Publications, 2001								
5.	Nidhi Gauba Dhawan, Ambrina Sardar Khan - Disaster Management And Preparedness-,CBS Publishers & Distributors,-2012								
6.	Goel. S.L, Disaster Administration and Management, New Delhi: Deep & Deep publication, 2007								

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