Course Code UES20AE1T Course Name ENVIRONMENTAL STUDIES					Course Category AE Ability Enha					nha	ncen	cement Courses				L	T 0	P 0	C 3						
Pre-requisite Courses Nil Co-requisite Courses Nil							Progressive Courses Nil																		
Course (Offering	Department	Computer Appl	ications	Data Book /	/ Codes/St	andards									Nil									
Course I	Learning	Rationale (CLR):	The purpose	e of learning this course is	to:			L	earn	ing				P	rogra	am L	earn	ing (Outc	ome	s (Pl	LO)			
CLR-1: CLR-2: CLR-3:	: To imp	ch about Biodivers	ab <mark>out ecosystem</mark> sity					1	2	3	1	2	3 seui	4	5	6 egp	7	8	9	10	11	12	13	14	15
CLR-4: To create awareness about environmental pollution CLR-5: To understand about Environment Protection						king (Bloom)	Proficiency (%)		ental Knowledge	Concepts	Related Discipline	ral Knowledge	Specialization	e Knowledge	ling	Interpret Data	Skills	ng Skills	on Skills	lls		Behavior	Learning		
Course Learning Outcomes (CLO): At the end of this course, le			f this course, learners will b	be able to:			Level of Thinking (Expected Proficier Expected Attainme		Fundamental		Link with Rela	Procedural Kr	Skills in Spec	Ability to Utilize	Skills in Modeling	Analyze, Inter	nvestigative	Problem Solving	Communication	Analytical Skills	ICT Skills	essional	ife Long Lea		
CLO-1:				atural resources and energ	gy		403	2	75	60	Н	Н	Н	-	-	•	-	-	-	-	-	-	-	-	-
CLO-2			ture and function o		-11-4		- 16	2	80	70	-	Н	-	Н	-	-	2	-	-	2	-	-	-	-	-
CLO-3	5 XX		value with respect to cept of interdepend	to biodiversity, understand ence	the threats a	and its cons	ervation	2	70	65	Н	-	-	100	-	-	-	-	-	-	-	-	-	-	
CLO-4	4	N. P. C.	572	tion and disaster manager	ment	NA -		2	70	70	Н	-	Н	Н	Н	-	-	-	-	-	-	0.70	-	-	-
CLO-5	: To ob	serve and disc <mark>ove</mark>	e <mark>r the</mark> surrounding e	environment through field w	work			2	80	70	F	Н	-	Н	-	-		-		-	-	-	-	-	-
Duratio	n (hour)		9	0		1///	Q					-		a								α			\neg
SLO-1 Environmental Studies- Concept Concept of an ecosystem Biodiversity a					National And Causes, Effects and Control Causes, Effects and Control					ilization															
S-1	SLO-2	Scope and Impe Environmental S		Ecosystem degradation Resource utilization	n and	India as a	India as a Mega Diversity Nation Measures of Nuclear hazards				Equity – Disparity														
S-2	SLO-1 Need for public awareness. Structure and Functions of an		ALC: AL POL - SSE MORE	Threats to biodiversity: habitat loss, poaching of wildlife Solid Waste Management Causes, Effects and Control Urban – rural equations of wildlife			quity issues																		
3.2	Producers consumers and				man-wildlife conflicts			Measures of Urban and Industrial Waste				The need for Gender Equity													
	SLO-1	People in Enviro	onment	Energy flow in the ecos	system	Endangered species			Endangered species of India		of India							Preserving resources for future generations							
S-3	I AWareness anout Environmental I the Dyviden cycle The Nitroden				Role of Individuals II Prevention			als In	In Pollution			The rights of animals													

S-4	SLO-1	Introduction to natural resources- Associated Problems	Ecological succession	Environmental Pollution- Definition	Disaster management- Nature	The ethical basis of environment	
3-4	SLO-2	Renewable and Nonrenewable resources	Food chains, Food webs and Ecological pyramids		Floods, Earthquakes	education and awareness	
S-5	SLO-1	Forest resources	Ecosystem, Introduction, Types, Characteristic features, Structure and functions	Causes, Effects and Control Measures of Air Pollution	Cyclones Landslides	The conservation ethic and traditional value systems of India	
	SLO-2	Water Resources	Forest ecosystem				
	SLO-1	Mineral Resources	Grassland ecosystem	Causes Effects and Central	Social Issues and the Environment	Wasteland Reclamation	
S-6	SLO-2	Food Resources	Desert ecosystem	Causes, Effects and Control Measures of Water Pollution	From Unsustainable to Sustainable Development		
S-7	SLO-1	Energy Resources	Aquatic ecosystems (ponds, lakes, streams)	Causes, Effects and Control	Water Conservation	Climate change & Global warming	
3-1	SLO-2	Land Resources	Aquatic ecosystems (rivers, estuaries, oceans)	Measures of Soil Pollution	vvaler Conservation	Cilinate change & Global Walling	
	SLO-1	Renewable and non-renewable resources- Wind	Value Of Biodiversity	Causes, Effects and Control	Rain Water Harvesting	Acid rain & Ozana layar danlatian	
S-8	SLO-2	Renewable and non-renewable resources- geothermal Consumptive Value And Productive Value		Measures of Marine pollution	Watershed	Acid rain & Ozone layer depletion	
S-9	SLO-1	Renewable and non-renewable resources- Solar	Social Value and Ethical Value	Causes, Effects and Control Measures of Noise Pollution	Environmental Ethics: Issues and Possible Solutions	Nuclear Accidents and Nuclear Holocaust	
3.8	SLO-2	Renewable and non-renewable resources- Biomass	Aesthetic Value and Option Value	Causes, Effects and Control Measures of Thermal Pollution	Resource consumption patterns		

Learning Resources
Resources

Theory:

- Bharucha Erach, (2013), Textbook of Environmental Studies for Undergraduate Courses (Second edition). Telangana, India: Orient BlackSwan.

 Basu Mahua, Savarimuthu Xavier, (2017), SJ Fundamentals of Environmental Studies. Cambridge, United Kingdom: Cambridge University Press

 Dr.R.Jeyalakshmi.2014., Text book of Environmental Studies, Devi publications, Chennai

 Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad 380013, India, Email:mapin@icenet.net (R)

Learning Assessment												
Level				Fig. 1 F (500/ i - l. t)								
	Bloom's Level of Thinking	CLA -	1 (10%)	CLA - 2 (10%)		CLA - 3 (20%)		CLA -	4 (10%)#	Final Examination (50% weightage)		
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	
Level 4	Remember	400/	- 5-	40%	-	40%	- Latini	40%	-	40%		
Level 1	Understand	40%	1 1 1								-	
Lavalo	Apply	30%		30%	-	30%	-	30%	-	30%		
Level 2	Analyze	30%	-	30%						3076	-	
Level 3	Evaluate	30%		30%		30%		30%		30%		
	Create	30 %	10.7	30%		30%		30%		3076	\$15Ta	
	Total	10	0 %	10	0 %	10	0 %	10	0 %	100 %		

CLA - 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers									
Experts from Industry	Experts from Academic	Internal Experts							
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		2.Dr.S.Albert Antony Raj, Associate Professor and Head, SRMIST							

