

## B.Tech (All Branches)

Attributes & SDGs Common for all branches/Disciplines

Cours e Code	Course Title		SDGs No.						
ES102	Concept of Environ	Employa bility	Entrepreneurship	Skill Developm ent	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
	mental Studies					V			SDGs 6,13,14,& 15

202     Un       203     Idd       204     An       pro     pro       205     Eva       1     and 1       2     Unit       3     Unit       3     Unit       1     and 1       1     Envi       2     Unit       1     Envi       2     Unit       3     Unit       1     Envi       0     Envi       0     Envi       0     Envi       4     Un       4     Un	te 1 te 1 te 1 ectives 1 f f f tudents will be a understand about dentifying envir nalyze and appl roblems and previr valuate the Envir Title of the Urr it I. Humans the vironment it II. Na sources, Ecosy Biodiversity nit vironmental	bout the environment and its all 'he importance of environment ature of mankind. Continuing p roductivity and national securi nvironmental issues ole to <b>understand</b> about relation t Ecosystem, Biodiversity and C onmental pollution, its impact o y knowledge for understanding enting the future ones ronmental crisis and can propos it The man-environment Emergence of city-state Industrial revolution and eco-centric perspectives Overview of natural r challenges. Biodiversity hotspots. M classification and their s in-situ and ex-situ conse III. Understanding pollution: environment; Definition c Air pollution: Source; Pr Standards. Technology to Water pollution: Source parameters and standards;	ied problems. al science and environi roblems of pollution, le ty, Global warming, th <u>Course</u> nship between Humans Conservation n humans, ecosystems at g complex environment se effective environment course effective environment (metraction: Humans as s; Great ancient civilizz nd its impact on the vironmental change. T (Major thinkers) esources: Definition, of al resource; Levels and fajor ecosystem types i significance. Threats to ervation approaches. Production processes of pollution; Point sourci imary and secondary per mitigate air pollution es; River, lake, and	and control measures through latest technologies tal- economic-social challenges, and active participation in so ntal management ontent of Unit s hunter-gatherers; Mastery of fire; Origin of agriculture; ations and the environment; Middle Ages and Renaissance; e environment; Population growth and natural resource The emergence of environmentalism: Anthropocentric and Classification and types of natural resources; Status and types of biodiversity; Biodiversity in India and the world; in India and their basic characteristics; Ecosystem services- biodiversity and ecosystems, Major conservation policies: and generation of wastes; Assimilative capacity of the ces and non-point sources of pollution. ollutants; Indoor air pollution; National Ambient Air Quality	development nment, issues ve made even olving curren Contact Hrs. 06 10	t is a key to s like econor ryone aware				
re-Requisite         Course Object         CO1       Stu         CO2       Un         CO3       Idde         CO4       An         pro       CO5         Eva       Unit         No.       Unit         1       And         Polit       Envi         2       Unit         3       Unit         3       Unit         4       Un         An       Ch	te 1 te 1 tudents will be a understand about dentifying envir nalyze and appl roblems and previr valuate the Envir Title of the Urr it I. Humans 1 the vironment it II. Na sources, Ecosy 1 Biodiversity nit vironmental llution ernational	he objectives of environmenta bout the environment and its all he importance of environmenta ature of mankind. Continuing p roductivity and national securi nvironmental issues ble to understand about relation t Ecosystem, Biodiversity and Commental pollution, its impact o y knowledge for understanding enting the future ones ronmental crisis and can propos it The man-environment Emergence of city-state Industrial revolution a exploitation; Global en eco-centric perspectives Overview of natural r challenges. Biodiversity as a natura Biodiversity hotspots. M classification and their s in-situ and ex-situ conse III. Understanding pollution: environment; Definition c Air pollution: Source; Pr Standards. Technology to Water pollution: Source parameters and standards;	Co-requisite I studies are Creating a lied problems. al science and environ roblems of pollution, le ty, Global warming, th Course nship between Humans Conservation n humans, ecosystems a g complex environment se effective environment interaction: Humans as s; Great ancient civilize ind its impact on the vironmental change. T i (Major thinkers) esources: Definition, o I resource; Levels and Major ecosystem types i significance. Threats to ervation approaches. Production processes of pollution; Point sourc imary and secondary pe mitigate air pollution es; River, lake, and	awareness about environmental problems among people and mental studies cannot be disputed. The need for sustainable oss of forget, solid waste disposal, degradation of the enviro he depletion of the ozone layer and loss of biodiversity have <b>Outcomes</b> and Environment and control measures through latest technologies tal- economic-social challenges, and active participation in so ntal management <b>ontent of Unit</b> s hunter-gatherers; Mastery of fire; Origin of agriculture; ations and the environment; Middle Ages and Renaissance; e environment; Population growth and natural resource The emergence of environmentalism: Anthropocentric and Classification and types of natural resources; Status and types of biodiversity; Biodiversity in India and the world; in India and their basic characteristics; Ecosystem services- o biodiversity and ecosystems, Major conservation policies: a and generation of wastes; Assimilative capacity of the ces and non-point sources of pollution. ollutants; Indoor air pollution; National Ambient Air Quality	l imparting ba development onment, issues ve made even olving curren Contact Hrs. 06 10	t environme Mappee CO CO1				
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Ch Ad		and       Image: Standards Technology to mitigate air pollution								
	Unit IV. Cl Change: Imj Adaptation Aitigation	10	CO4							
5 Case Wor	se Studies and I ork	development. • Field visits to identify and prepare a brief repo • Documentation of cam	y local/regional enviror rt. 1pus biodiversity.	ional case study related to the environment and sustainable nmental issues, make observations including data collection as such as solid waste disposal, water management, and		CO5				
Reference Bo	ooks:	interest interesting				1				
) Agarwal, K. ) Bharucha E ) Brunner R.C	K.C. 2001 Enviro Erach, The Biod C. 1989. Hazaro	onmental; Biology, Nidi Pub. Lt iversity of India, Mapin Pub. Pv lous waste incineration, Mc Gra n, Clanderon Press Oxford (TB)	t. Ltd., Ahemdabad-38 w Hill	0, India.						
e-Learning	g Source:									
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	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																	
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4		
CO1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-		
CO2	-	-	1	-	-	-	3	-	1	-	-	-	-	-	1	1		
CO3	-	-	2	-	-	-	3	-	1	-	-	-	-	-	1	1		
CO4	-	-	2	-	-	-	2	-	1	-	-	-	-	-	1	1		
CO5	-	-	1	-	-	-	2	-	1	-	-	-	-	-	1	1		
	1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation																	

Name & Sign of Program Coordinator

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Sign & Seal of HOD

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