SCHEMEOFCOURSE WORK

CourseDetails:

COURSETITLE	ENVIRONMENTAL SCIENCE			
COURSECODE	22BC11Z1 L T P C 2 0 0 0			
PROGRAM	B.Tech			
SPECIALIZATION	CommontoallBranches			
SEMESTER	II			
PREREQUISITES				
COURSESTOWHICHITISAPRERE QUISITE	N/A			

CourseOutcomes(COs):

1	Identifythevariousresources availableandexplain theirconservationtechniques.							
2	Classify, describeand explain the concepts of ecosystem, biodiversity and their conservation.							
3	Categorizeandexplain differenttypes of pollution and their control methods.							
4	Identifythedifferenttypesofsocialissuescaused dueto today'sdevelopmentandalsodescribethe relevantacts.							
5	Assesstheeffectsofpopulationanditsgrowthonenvironmentandhumanhealth.							

AssessmentMethods	Assignment/ Quiz/ Seminar / CaseStudy/Mid-Test /EndExam	7
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$Course Outcome {\it Versus Program Outcomes:}$

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CO 1	3		3		3			2			2		3		
CO 2		2		3		2			3	2		2			3
CO 3	3		2		3		2		2		2		2		
CO 4	3					3			3			2		3	
CO 5	3	2	2		2	3			2						2

Teaching-Learning& Evaluation

Week	Topic/Contents	CourseOu tcomes	Samplequestions	Teaching learning strategy	Assessment method& schedule
1	Renewableand Resources.	CO-1	1. What is anenvironment? Enumerateand discussthevarioussegm ents of environmentinbrief.	Lecture	Assignment (Week 4)Mid-Test 1 (Week9) Quiz- 1(Week- 8)
2	Food chains, foodwebsandecologic alpyramids	CO-1	1.What is the impact offoodchainsonhumans	Lecture	Assignment (Week 4)Mid-Test 1 (Week9) Quiz- 1(Week- 8)
3	Concept ofane cosystem	CO-2	1.Explaintheconceptofec osysteminbrief	Lecture	Mid- Test1 (Week9) Quiz- 1(Week9)
4	Structure andfunction of thefollowing ecosystem,Threats tobiodiversity	CO-2	1.Discuss about variousthreatsto biodiversity	Lecture	Assignment (Week 4)Mid-Test 1 (Week9) Quiz- 1(Week8)
5	Bio- geographicalclas sification ofIndia, Threatstobiodive rsity	CO-2	1.Writeshortnotes onGenetic biodiversity,Species biodiversity,Ecosystembi odiversity	Lecture	Mid- Test1 (Week9) Quiz- 1(Week8)
6	Endangered andendemicspecies ofIndia, Conservation ofbiodiversity	CO-2	1.What isthe mainObjectiveskfconver sation ofbiodiversity?State andexplain thetwobasic approaches tothe wildlifeconversation	Lecture	Mid- Test1 (Week9) Quiz-1 /(Week8)

	Conservation	CO-2	1.What		Mid-
	ofbiodiversity		doyouunderstandconver		Test1
7			sationof for	Lecture	(Week9)
			biodiversity?Discussthe	Lecture	Quiz-
			strategies		1(Week8)
			conversationof		,
			biodiversity		

8	In-situandEx- situConservation ofbiodiversity	CO-2	1.Explain in-situ and ex- situconversation alongwith their merits and limitations	Lecture	Mid- Test1 (Week9) Quiz- 1(Week8)
9	MidTest1				
10	Definition, Cause,effectsandcont rolmeasuresofa)Airp ollution b)Waterpollution c)Soilpollution d)Marine pollution e) Noisepoll utionf)Thermalpollut iong) Nuclearhazards	CO-3	1.Explain a) Airpollution b)Waterpollution c)Soilpollution d)Marinepollution e) Noise pollution indetail	Lecture	Assignment2 (Week 13)Mid- Test2 (Week18)
11	Causes, effects andcontrol measures ofurbanandindustri alwastes. Role of anindividual inpreventionof pollution	CO-3	1.What is the role ofindividual in preventionofpollution	Lecture	Assignment2 (Week13) Mid-Test2 (Week18)
12	FromUnsustainable toSustainabledevelo pment,Protection Act,WildlifeProtect ionAct.	CO-4	1.Explain aboutwi ldlifeprotectionact indetail	Lecture	Assignment2 (Week13) Mid-Test2 (Week18)
13	Populationgrowth, Variationamong Nations. Populationexplosio nFamily	CO-4	1.Explainpopulation Explosionindetail.	Lecture	Assignment2 (Week13) Mid-Test2 (Week18)
14	Welfare Programme.Environ ment andHumanhealth. HumanRightsValue Education HIV/AIDS	CO-5	1. Explain aboutHIV/AIDScamp aign.	Lecture	Mid-Test2 (Week18) Quiz- 2/Seminar (Week17)
15	River/forestgrasslan d/hill/mountain	CO-5	FieldVisit	Lecture	Mid-Test2 (Week18) Quiz- 2/Seminar (Week17)

	Urban/Rural/industrial/AgriculturalStud	CO-5	FieldVisit		Mid-Test2 (Week18)
16	yof			Lecture	Quiz-
	commonplant				2/Seminar
	s,insects,				(Week17)

17	Birds Study ofsimpleecosyste ms-pond, river, hillslopes	CO-5	FieldVisit	Lecture	Mid-Test2
18	Mid-Test2				
19/20	ENDEXAM				