

C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Bachelor of Science in Information Technology

(B.Sc.IT)

Semester : II

W.e.f. June – 2016

Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week					Evaluation Scheme/Semester							
			Th	Tu	Pr	Total	Credits	Theory			Practic		al		
								Sessional Exam		University Exam		Internal		Uni.	Total Marks
								Marks	Hrs	Marks	Hrs	Pr	тw	Pr	
6	4CS02IEH2	Environmental Science and Health Aspects Awareness	-	2	-	2	1	-	-	-	-	-	50	-	50

Objectives:The importance of environmental science and environmental studies cannot be disputed. The need for sustainable development is a key to the future of mankind. Continuing problems of pollution, loss of forget, solid waste disposal, degradation of environment, issues like economic productivity and national security, Global warming, the depletion of ozone layer and loss of biodiversity have made everyone aware of environmental issues. It is clear that no citizen of the earth can afford to be ignorant of environment issues. Environmental management has captured the attention of health care managers. Managing environmental hazards has become very important.

Ch. No	Chapter Name	Course Contents				
1	Multidisciplinary nature of environmental studies	Definition, scope and importance, need for public awareness	2			
2	Natural Resources : Renewable and non- renewable resources	 Natural resources and associated problems. a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources : World food problems, changes caused by agriculture and over-grazing, effects of modern agriculture, e) Energy resources : Growing energy needs, renewable and non renewable energy sources, f) Land resources: Land as a resource, land degradation, man induced landslides,. Role of an individual in conservation of natural resources. 	5			
3	Ecosystems	 Concept of an ecosystem. Structure and function of an ecosystem. Producers, consumers and decomposers. Energy flow in the ecosystem. Ecological succession. Food chains, food webs and ecological pyramids. Introduction, types, characteristic 	5			

		features, structure and function of the following ecosystems :- a.				
		Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d.				
		Aquatic ecosystems (ponds, streams, lakes, rivers, oceans,				
		estuaries)	5			
4	Biodiversity and its	Introduction – Definition : genetic, species and ecosystem				
	conservation	diversity. • Biogeographically classification of India • Value of				
		biodiversity : consumptive use, productive use.				
5	Environmental	Definition • Cause, effects and control measures of :- a. Air	5			
	Pollution	pollution b. Water pollution c. Soil pollution d. Marine pollution e.				
		Noise pollution f. Thermal pollution g. Nuclear hazards • Solid				
		waste Management : Causes, effects and control measures of				
		urban and industrial wastes. • Role of an individual in prevention				
		of pollution.				
6	Social Issues and the	From Unsustainable to Sustainable development • Urban problems	5			
-	Environment	related to energy • Water conservation, rain water harvesting,	-			
		watershed management • Resettlement and rahabilitation of				
		people; its problems and concerns. Case Studies • Environmental				
		ethics : Issues and possible solutions. • Climate change, global				
		warming, acid rain, ozone layer depletion, nuclear accidents and				
		holocaust. Case Studies. • Wasteland reclamation. • Consumerism				
		and waste products. • Environment Protection Act. • Air				
		(Prevention and Control of Pollution) Act. • Water (Prevention and				
		control of Pollution) Act • Wildlife Protection Act • Forest				
		Conservation Act				
7	Human Population	Population growth, variation among nations. • Environment and	5			
'	and the Environment	human health. • Human Rights. • Value Education.	5			
		Women and Child Welfare. Role of Information Technology in				
		Environment and human health.				
8	Field work	Visit to a local area to document environmental assets river/	3			
U		forest/grassland/hill/mountain • Visit to a local polluted site-	3			
		Urban/Rural/Industrial/Agricultural • Study of common plants,				
		insects, birds. • Study of simple ecosystems-pond, river, hill slopes,				
		etc. (Field work Equal to 5 lecture hours)				
9	Concept of Health &	a) Concept of Health & Health education	5			
9	Health education	b) Health Education – Aims, Principles, Contents and Methods.	5			
		c) Levels of Health Care in India, 3-Tier system of health care				
		d) Positive health : Meaning & Spectrums				
		e) Role of Heredity & Environment				
10	Nutrition	a)Proximate Principles	5			
-		Balance diet	-			
		Malnutrition				
		b) Effects of Smoking, Drugs and Alcohol				
		c) School Health services & Programme				
		• Role of the P.E. Teacher, Principal and Doctor				
11	Community &	Pollution:- Its causes & effect on health	5			
	Environmental	i. Air Pollution ii. Water Pollution iii. Noise Pollution				
	Health	 Occupational Hazards Housing 				
		• Population: - Policy, explosion, dynamics & family welfare				
		Programme				
		TOTAL	50			