# **FOUNDATION COURSE**

# **ENVIRONMENTAL STUDIES**

Common for BA/BCom/BSc/BBA/BCA Programmes

### **II SEMESTER - W.E.F. 2015-16**

#### Unit-I: Natural Resources

CIIIt-I .	Natural Resources
importa Natural Ti 	extracting and using mineral resources, case studies  Food resources: World food problems, changes caused by agriculture and vergrazing, effects of modern agriculture, fertilizer- pesticide problems, ater logging, salinity, case studies  Energy resources Growing energy needs, renewable and non-renewable nergy sources, use of alternate energy sources, case studies
Unit-II	: Ecosystems, Biodiversity and its conservation
ec	Food chains, food webs and ecological pyramids Introduction, types, characteristic features, structure and function of the llowing ecosystem:- Forest ecosystem, Grassland ecosystem, Desert cosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, stuaries)
	Introduction – Definition genetic, species and ecosystem diversity Biogeographically classification of India Value of biodiversity: Consumptive use, productive use, social, ethical aesthetic and option values Biodiversity at global, National and local levels

		India as a mega – diversity nation
		Hot-spots of biodiversity
		Threats to biodiversity habits loss, poaching of wildlife, man wildlife conflicts
		Endangered and endemic species of India
		Conservation of biodiversity: In-situ and Ex-situ conservation of
		biodiversity
Unit-		: Environmental Pollution
		Definition
		Causes, effects and control measures of :-
		a. Air pollution
		b. Water pollution
		c. Soil pollution
		d. Marine pollution
		e. Noise pollution f. Thermal pollution
		g. Nuclear pollution
		Solid waste management: Causes, effects and control measures of urban
	_ an₁	d industrial wastes
		Role of individual in prevention of pollution
		Disaster management: floods, earthquake, cyclone and landslides
Unit-	IV	: Social Issues and the Environment
		From Unsustainable to Sustainable development
		Urban problems related to energy
		Water conservation, rain water harvesting, watershed management
		Resettlement and rehabilitation of people; its problems and concerns
		Case studies
		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
		Issues involved in enforcement of environmental legislation Public awareness
Unit-		Human Population and the Environment
		pulation growth , variation among nations
		Population explosion- Family welfare Programme
		Environment and human health
		Human Rights
		Value Education
		HIV/AIDS
		Women and Child Welfare
		Role of Information Technology in Environment and human healt

#### **REFERENCE BOOKS:**

- 1. Environmental Studies (for Non-Engineering Students) by Prof. B.Sudhakara Reddy, Prof. T.Shivaji Rao, Prof. U.Tataji and Prof. K.Purushotham Reddy, published by Maruthi Publications, Guntur. (prescribed by APSCHE)
- 2. Environmental Studies by Dr.M.Satyanarayana, Dr.M.V.R.K.Narasimhacharyulu, Dr.G.Rambabu and Dr.V.Viveka Vardhani, Published by Telugu Academy, Hyderabad.
- 3. Environmental Studies by R.C.Sharma, Gurbir Sangha, published by Kalyani Publishers.
- 4. Environmental Studies by Purnima Smarath, published by Kalyani Publishers.

# SRI VENKATESWARA UNIVERSITY: TIRUPATI

# ENVIRONMENTAL STUDIES II - SEMESTER MODEL QUESTION PAPER 2015-16

Ranswer ALL questions of Each question carries T	Marks : 5 × 10 = 50	
	UNIT - I	
1. 2.	(OR)	
	UNIT - II	
<ul><li>3.</li><li>4</li></ul>	(OR)	
	UNIT - III	
5.	(OR)	
6	UNIT - IV	
7. 8.	(OR)	
	UNIT - V	
9. 10	(OR)	
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