

# **KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

(Sponsored by S.K.P.V.V.Hindu High Schools' Committee)

Kothapeta, Vijayawada – 520 001.

**A College with Potential for Excellence (CPE)**

**ALL INDIA 92nd RANK IN NIRF BY MHRD**

(An Autonomous College in the Jurisdiction of Krishna University)

ISO-9001-2008 CERTIFIED INSTITUTION

NAAC accredited@ A

<b>ENVIRONMENTAL STUDIES</b>	<b>CBES201A</b>	<b>2017-2018</b>	<b>I Degree</b>
------------------------------	-----------------	------------------	-----------------

## **COURSE OBJECTIVES**

- Awareness about all types of pollutions in nature.
- Improve Access to Clean and Safe Water.
- Promote Materials Management, Waste Management, and Clean Sites.
- Enhance Joint Preparedness for Environmental Response.

## **ENVIRONMENTAL STUDIES OUTCOMES**

- Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.
- Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving.
- Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
- Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

# KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by S.K.P.V.V.Hindu High Schools' Committee)

Kothapeta, Vijayawada – 520 001.

**A College with Potential for Excellence (CPE)**

**ALL INDIA 92nd RANK IN NIRF BY MHRD**

(An Autonomous College in the Jurisdiction of Krishna University)

ISO-9001-2008 CERTIFIED INSTITUTION

NAAC accredited@ A

<b>ENVIRONMENTAL STUDIES</b>	<b>CBES201A</b>	<b>2017-2018</b>	<b>I Degree</b>
------------------------------	-----------------	------------------	-----------------

W.e.f:2017-18

**SEMESTER –II**

**SYLLABUS**

**ENVIRONMENTAL STUDIES**

**Total-60hrs**

## **Unit-I: GLOBAL ENVIRONMENTAL CHALLENGES**

**8 Hrs.**

Climate Change, Global warming, Acid rains, Ozone layer depletion, Carbon Credits, Carbon trading.

## **Unit - II : ECOSYSTEM AND BIODIVERSITY**

**15 Hrs**

- **Concept of Ecosystem:** Abiotic & Biotic components, Functions of Ecosystem(Food Chain, Food Web, Energy Flow, Ecological Pyramids, Nutrient Cycles – Carbon & Water cycle )
- **Biodiversity:** Values , Threats and Conservation of Biodiversity

## **Unit-III NATURAL RESOURCES**

**10 Hrs.**

- **Water resources:** Use and over utilization of surface and ground water, **Water conservation methods.**
- **Energy resources:** Renewable & Non-renewable energy sources, use of alternate sources
- **Forest resources:** Use and over-exploitation , deforestation causes &consequences
- **Land resources:** Soil erosion & desertification

## **Unit-IV ENVIRONMENTAL POLLUTION**

**12 Hrs.**

- **Basics of Environment:** Atmosphere, Hydrosphere, Lithosphere & Biosphere
- **Causes, Effects and control measures of Air, Water, Soil and Noise Pollution.**
- **Solid waste management:** Causes, effects and control measures of urban & Industrial wastes

## **Unit-V HUMAN POPULATION AND SOCIAL ISSUES**

**15 Hrs.**

**Human population:** Population explosion- **Causes, Effects & Control measures,**

**Environment and Human Health: AIDS, Swine flu.**

**Social issues:**Sustainable Development, Re-settlement and Rehabilitation Problems, Swacha Bharat

Environmental laws and regulation:**Air act, Water act, Wild life (Protection) Act,** Municipal Solid Waste (Management & Handling) Rules , 2000.

\*\*\*\*\*

END SEMESTER  
EXAMINATION MODEL  
QUESTION PAPER

**II SEMESTER - FOUNDATION COURSE- ENVIRONMENTAL STUDIES**

**3Hours**

**Max Marks 75**

**Part A  
Marks**

**5 x 5 = 25**

(Instructions to the Paper setter set minimum **one** question from each unit, Maximum 8 from all)

**Answer any FIVE out of Eight questions**

- Q.1. Carbon Credits.
- Q.2. Conservation of Biodiversity
- Q.3. Water conservation.
- Q.4. Effects of water pollution.
- Q.5. Sustainable Development.
- Q.6. Swacha Bharat
- Q.7. AIDS
- Q.8. Water Act.

**PART B**

**5 x 10 = 50 Marks**

(Instructions to the Paper setter set minimum **two** questions from each unit)

**Answer ONE question from each UNIT**

- 9 a). Explain about Global Warming and Acid Rains.  
(or)  
b) Explain About Ozone Layer Depletion.
- 10. a) Explain about Food Chain and Food Web with examples.  
(or)  
b) Explain about conservation of Biodiversity.
- 11 a). Write in detail about Renewable energy resources  
(or)  
b). Write about Causes and consequences of Deforestation.
- 12. a) Explain about causes, effects and control measures of Air Pollution.  
(or)  
b) Explain the stages of Solid waste Management.
- 13. a) Write about Causes, effects and Control Measures of Population explosion.  
(or)  
b) Write a note on Resettlement and Rehabilitation problems with example.

=====