

17BB112-GEOGRAPHY AND ENVIRONMENTAL STUDIES

Course Description and Objective:

To sensitize the students on the environmental aspects of development and give basic exposure to geography. Students will learn fundamentals of geography, Sources of energy and importance of Bio-Diversity. They also learn environmental issues and their implications.

Learning Outcomes

By the end of this course it is expected that the student will be able to:

1. Understand fundamentals of geography
2. Learn milestones in India's scientific and technological progress
3. Sources of energy and their importance
4. Importance of Bio-Diversity
5. Environmental issues and their implications

UNIT-I:

- 12 Hrs

Geography: Fundamental concepts of Geography- Physical Geography of India – River systems, climate, soils, minerals, geological Strata, climatic regions, natural vegetation, Races and Physical Types of People.

UNIT-II:

- 12 Hrs

Scientific and Technological Development: Milestones in India's scientific and technological progress in diverse fields – space, Nuclear, IT, Defense, Agriculture and Rural technologies- Prominent scientists of India and their contribution -Recent initiatives to spread scientific temper and S & T practices.

UNIT-III:

- 12 Hrs

Energy Sources: Sources of Energy-availability and consumption pattern, Energy policy and pricing Issues relating to hydel power (Big Dams), Thermal Plants and Nuclear power Green Energy technologies and their importance.

UNIT-IV:

- 12 Hrs

Biodiversity: Meaning and importance of Bio-diversity, Sustainable Development-Ecosystems and their management -Bio-Diversity of India, Bio- spheres and Biodiversity hot spots of India Initiatives to preserve bio-diversity.

UNIT-V:

- 12 Hrs

Environmental issues: Magnitude, causes and consequences of environmental pollution in India -Factors that led to global warming and climate change -Recent international protocols to tackle climate change, Carbon trading and its implications -Concerns of Developing Countries.

Reference Books:

1. Bio & Environmental Geog. Biosphere A Geography of Life By Dr. Thomas and K. Siddhartha.
2. Environmental Geology –By Valdiya.