

Deccan Education Society's

Kirti M. Doongursee College of Arts, Science and Commerce (AUTONOMOUS)



Affiliated to

UNIVERSITY OF MUMBAI

Syllabus for
Program: Bachelor of Commerce
Course: F.Y.B.COM.
Subject: Environmental Studies

Choice Based Credit System (CBCS)
with effect from
Academic Year 2022-2023

Course Code	Course Title	Credits	Lectures /Week
KUCEVS22101	Paper 1 – Environmental Studies	3	4
About the Course:			
<p>The course provides an overview of the environment, ecology, ecosystem, natural resources, sustainable development, urbanization, and thematic mapping based on all the aspects. It aims to shed light on the concept and components of the environment, ecology and ecosystem, natural resources, and the sustainable development with a focus on the conservation of natural resources, population growth, and its environmental impact, and the urbanization with special emphasis on Smart City Mission of India. The course shall further convey an understanding of thematic mapping from an environmental point of view</p>			
Course Objectives:			
CO1.	Learner will learn to create an environmental awareness among commerce students.		
CO2.	Learner will understand importance of environment and man-environment relationship.		
CO3.	Learner will understand different ecosystems, functions and structures.		
CO4.	Learner will understand types and classification of natural resources and sustainable development and problems associated with management of resources.		
CO5.	Learner will know Population explosion problems and measures and human develop index.		
CO6.	Learner will analyze Urbanization and environmental problems and emergence of smart cities and safe cities.		
CO7.	Learner will learn to read thematic maps and will be able to fill the map using point, line and polygon segments.		
Learning Outcomes:			
<p>After successful completion of this course, students would be able to</p> <ul style="list-style-type: none"> • Understand the concept and structure of environment. Make them aware about the interdependency of Man & Environment upon each other. • Enables them to learn the resources, its types, and its utilization and understand importance of the sustainable development and environment management skills. 			

- Spreading the awareness on the pattern of population growth, explosion, and its effects.
- Develops the understanding towards urban environment, and its effects over the land and biodiversity.
- Enables learners to get theoretical and practical exposure in the environmental studies, values, and importance. etc.

Unit	Topics	No of Lectures
I	Environment and Ecosystem Environment : Meaning, definition, scope and its components; concept of an ecosystem: definition, Characteristics, components and types, functioning and structure; Food Chain and Food Web- Ecological Pyramids - Man and environment relationship; Importance and scope of Environmental Studies.	13
II	Natural Resources and Sustainable Development Meaning and definitions ; Classification and types of resources, factors influencing resource utilization; Resource conservation-meaning and methods-conventional and non-conventional resources, problems associated with and management of water, forest and energy resources resource utilization and sustainable development.	13
III	Populations and Emerging Issues of Development Population explosion in the world and in India and arising concerns Demographic Transition Theory - pattern of population growth in the world and in India and associated problems - Measures taken to control population growth in India; Human population and environment. Environment and Human Health — Human Development Index the World Happiness Index.	13
IV	Urbanization and Environment Concept of Urbanization Problems of migration and urban environment- changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover impact on biodiversity, Urban heat islands – Emerging Smart Cities and safe cities in India Sustainable Cities	13
V	Reading of Thematic Maps and Map Filling <ul style="list-style-type: none"> • Reading of Thematic Maps (4 Lectures) • Located bars, Circles, Pie charts, Isopleths, Choropleth, and Flow map, • Pictograms - Only reading and interpretation. • Map Filling : (4 Lectures) • Map filling of World (Environmentally significant features) using point, line and polygon segment. 	8

Textbooks:

1. Environmental Studies – P.G. Shinde, Dr. H. M. Pednekar, et. al.

Additional References:

Course Code	Course Title	Credits	Lectures /Week
KUCEVS22201	Paper 1 – Environmental Studies	3	4
About the Course:			
<p>The course provides an overview of solid waste management, the impact of agriculture, industry, and tourism on the environment and inversely. It aims to shed light on solid wastes and its management, individual's role in the Solid Waste Management, sustainable agriculture, sustainable industrial practices, Bioremediation, and impact of tourism on the environment and conversely. Also, it proposes the role of technology in environmental management. The course shall further focus on the applications of map filling of Mumbai and Konkan region.</p>			
Course Objectives:			
CO1.	The Learner will be aware of the classification of solid wastes and its sources and will learn solid waste management.		
CO2.	Learner will learn environmental problems associate with agriculture and industrial development, and also sustainable practices to overcome the same.		
CO3.	Learner will learn types, nature, scope and importance of tourism and its potential to develop in India and its positive and negative impacts.		
CO4.	Learner will learn to create and insight into various environmental issues at various levels and environmental movements towards making environment sustainable.		
CO5.	Learner will be able to fill environmentally significant features in maps of Mumbai and Konkan.		
Learning Outcomes:			
After successful completion of this course, students would be able to			
<ul style="list-style-type: none"> ● The student can explain the problem of Solid Waste Management, its sources and classification, significance of sustainable agricultural practices and sustainable industrial practices, role of CSR in environmental protection, Bioremediation tourism potential in the Konkan, impact of tourism on environment, and Geospatial Technology for environmental management. ● The students would be aware about various issues related to environment and learn to empathize with these problems. ● Understand map filling of Mumbai and Konkan region. 			

Textbooks:

1. Environmental Studies – P.G. Shinde, Dr. H. M. Pednekar, et. al.

Additional References:

Evaluation Scheme for First Year (UG) under AUTONOMY

I. Internal Evaluation for Theory Courses – 40 Marks

- (i) Continuous Internal Assessment - Assignment- 20 Marks
- (ii) Continuous Internal Assessment – Class Test - 20 Marks

II. External Examination for Theory Courses – 60 Marks

Duration: 2 Hours

Theory question paper pattern:

Question	Based on	Options	Marks
Q.1	Unit I	<i>Any 1 out of 2</i>	12
Q.2	Unit II	<i>Any 1 out of 2</i>	12
Q.3	Unit III	<i>Any 1 out of 2</i>	12
Q.4	Unit IV	<i>Any 1 out of 2</i>	12
Q.5	Unit V	(A) (B)	06 06

- All questions are compulsory.

Each Question may be sub-divided into sub questions as a, b, c, d, etc. & the allocation of Marks depends on the weightage of the topic.