

Academic Council

Item No: _____

Devrukh Shikshan Prasarak Mandal's

NYA. TATYASAHEB ATHALYE ARTS, VED. S.R. SAPRE COMMERCE &

VID. DADASAHEB PITRE SCIENCE COLLEGE, DEVRUKH

[AN AUTONOMOUS COLLEGE AFFILIATED TO UNIVERSITY OF MUMBAI]



Syllabus for First Year Bachelor of Commerce

Program: F. Y. B. Com.

Course: Environmental Studies

Course Code: UCEVS21

Semester II (Environmental Studies Paper I)

Credit Based Semester and Grading System with the Effect from

Academic Year 2019-20

B. Com. General (Semester Pattern)

First Year Bachelor of Commerce

Environmental Studies – Curriculum

Semester	Paper Code	Paper	Lectures /Practical	Evaluation Weightage			Credits
				External	Internal	Total	
Semester I	UCEVS11	Environmental Studies Paper-I	60	70	30	100	04
Semester II	UCEVS21	Environmental Studies Paper-I	60	70	30	100	04

**Syllabus for course Environmental Studies in the programme F.Y.B.Com.
(With effect from the academic year 2019-2020)**

SEMESTER-II

Environmental Studies: Paper-I

COURSE CODE: UCEVS21

Credits - 04

Learning Objectives			
<ul style="list-style-type: none"> ➤ 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, individuals' 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 Google Services in environmental management. 			
COURSE CONTENT			
Topic No.	Content	Credits	No. of Lectures
1	Solid Waste Management for Sustainable Society <ul style="list-style-type: none"> ○ Solid Wastes: Concept and Detailed Classification ○ Sources of Solid Waste ○ Effects of Solid Waste ○ Sustainable Solid Waste Management ○ The role of citizens in waste management ○ Sustainable Habitats-Green building 	01	15
2	Agriculture and Industrial Development <ul style="list-style-type: none"> ○ Environmental Problems Associated with Agriculture ○ Sustainable Agricultural Practices and Food Security ○ Sustainable Industrial practices ○ Green Business and Green Consumerism, ○ Corporate Social Responsibility for Environmental Protection concerning India ○ Bioremediation: Types and roles of plants and microbes for in-situ and ex-situ remediation 	01	15
3	Tourism and Environment <ul style="list-style-type: none"> ○ Tourism: Concept and Classification; ○ Major Eco-Tourism Centers in India ○ Tourism potential in Konkan region with special reference to Ecotourism New Tourism Policy of India ○ Impact of the Environment on Tourism ○ Impact of Tourism on the Environment 	01	15

Topic No.	Content	Credits	No. of Lectures
4	<p>Environmental Movements, Management and Use of Google Maps for Environmental Management</p> <ul style="list-style-type: none"> ○ Environmental movements in India: Save Narmada Movement, Chipko, Movement, Appiko Movement, Save Western Ghat and Save Jaitapur ○ Environmental Management: Concept, Need and Relevance; ○ Geospatial Technology: Concept, Components, and Applications in Environmental Management ○ Locating point, line and polygon features using Google maps (based on the unit first to fourth) ○ Use of Google Maps for E-Commerce/ E-Marketing ○ Google Services in the Environmental Awareness and E-Commerce <p>Students are required to prepare a journal using snapshots of the work done using Google maps and submit the same in online mode only and it will be considered for internal evaluation</p>	01	15
	Total	04	60

Practical Record: A journal comprising one exercise each needs to be submitted by the student through online mode only.

Learning Outcomes

On completion of the course the student should have the following learning outcomes defined in terms of knowledge, skills and general competence:

Knowledge

The student can explain the problem of SWM, its sources and classification, the significance of sustainable agricultural practices and sustainable industrial practices, the role of CSR in environmental protection, Bioremediation tourism potential in the Konkan, impact of tourism on the environment, and Geospatial Technology for environmental management.

Skills

The student can identify the hotspots of solid wastes and other environmental problems with the help of technology.

General competence

The student can apply Geo-Spatial technology and Google Services for environmental management in the locality.

Required Previous Knowledge

Basic Knowledge of computers and knowledge of the interdisciplinary nature of agriculture, industry, and tourism is required.

Access to the Course

The course is available for all the students admitting for the Bachelor of Commerce in the first year.

Forms of Assessment

The assessment will be external as well as internal. **The pattern of external and internal assessment will be 70:30.** The question paper pattern will be as given below.

External evaluation (70 Marks)
Question Paper Pattern
Time: 2.5 hours

Question No.	Unit/s	Question Pattern	Marks
Q.1	All	a) Fill in the Blanks- 05 marks b) Match the following- 05 marks c) Write answers in a single sentence- 04 marks	14
Q.2	Unit-1	Attempt any two questions from the followings a) Descriptive Knowledge-Based Question b) Descriptive Skill-Based Question c) Descriptive Applied Question	14
Q.3	Unit-2	Attempt any two questions from the followings a) Descriptive Knowledge-Based Question b) Descriptive Skill-Based Question c) Descriptive Applied Question	14
Q.4	Unit-3	Attempt any two questions from the followings a) Descriptive Knowledge-Based Question b) Descriptive Skill-Based Question c) Descriptive Applied Question	14
Q. 5	Unit-4	Attempt any two questions from the followings a) Descriptive Knowledge-Based Question b) Skill-Based Question- Steps of locating point/ line/ polygon on Google earth- Applied Question c) Applied Question - Use of Google Services in Environmental Management	14
Total			70

Internal evaluation (30 Marks)

Sr. No.	Description	Marks
1	Test (Preferably Online Test with Fifteen Minutes Duration- MCQ, Match the following, True or False, etc.)	10
2	Project Report	10
3	Overall Conductance	10
	Total	30

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade in the grading scale, grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.

References:

1. Allaby M. 2002: Basics of Environmental Sciences, Routledge, London
2. Asthana, D. K., and Asthana, Meera, Environmental Problems and Solutions, S. Chand, New Delhi, 2012
3. Gautam Alka, 2009: Environmental Geography, Sharda Pustak Bhavan, Allahabad, India
4. Odum E.P. (1971): Fundamentals of Ecology, W.B. Saunders, Philadelphia
5. Botkin D.B. & Keller E.A., 1995: Environmental Science, John Wiley & Sons, New York
6. McKinney M.L. & Schoch R.M., 1998: Environmental Science, Jones & Bartlett Publishers, London
7. Detwiler T.R., 1971: Man's Impact on Environment, McGraw-Hill, New York
8. Singh, Savindra, 2011: Environmental Geography, Prayag Pustak Bhavan, Allahabad, India
9. Ahirrao W.R. & others, Paryavaran Vijnan (Marathi), Nirali Prakashan, Pune