

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

Semester I and II (Environmental Studies Paper I and II)

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	ASPCCU EVS101	Environmental Studies Paper-I	60	70	30	100	04
Semester II	ASPCCU EVS102	Environmental Studies Paper-I	60	70	30	100	04

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

SEMESTER-I

Environmental Studies: Paper-I

COURSE CODE: ASPCCUEVS101

Credits - 04

Learning Objectives			
<ul style="list-style-type: none"> ➤ 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 in the Konkan region, 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. 			
COURSE CONTENT			
Topic No.	Content	Credits	No. of Lectures
1	Environment, Ecology, and Ecosystem <ul style="list-style-type: none"> ○ Environment: Concept and components ○ Ecology: Concept and components ○ Ecosystem: Concept, Characteristics, Components, and Types ○ Food Chain and Food Web- With a focus on the Konkan in General and vicinity on particular ○ Man-Environment relationship and Importance of Environmental Studies- Determinism, Possibilism, Neo Determinism (Examples from the Konkan) 	01	15
2	Natural Resources and Sustainable Development <ul style="list-style-type: none"> ○ Natural Resources: Concept of Resources and Classification of Natural Resources ○ Problems associated with natural resources: Water, Forest, Land, and Mineral ○ Remedial Measures for the Conservation of the Natural Resources: Water, Forest, Land, and Mineral ○ Role of an individual in conservation of natural resources. <p>Identify the major natural resources in the vicinity and problems associated with it. Prepare a detailed project report along with your suggestions for the conservation</p>	01	15

Topic No.	Content	Credits	No. of Lectures
3	<p>Populations and Emerging Issues of Development</p> <ul style="list-style-type: none"> ○ Population explosion in the world and India ○ Demographic Transition Theory ○ Population policies: Policies focusing on population control- India and China; Policies focusing on population growth- Siberia and Canada ○ Impact of Increasing population on Environment ○ Human Development Index and the World Happiness Index 	01	15
4	<p>Urbanization and Thematic Mapping</p> <ul style="list-style-type: none"> ○ Concept of Urban and Urbanization ○ Growth of Urbanization and Changing Urban Environmental Problems in India ○ Smart Cities Mission in India <p>Map Filling of India- Minerals, Industrial regions, Trading centers, ports, major pollution centers, Major Cities, Smart Cities, etc. based on First to Fourth</p> <p>Reading of Thematic Maps Related to unit First to Fourth (Only Flow Diagram, Choropleth Method and Dot Method)</p>	01	15
	Total	04	60

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

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 environment, ecology, ecosystem, food chain, food web, problems associated with natural resources and its conservation with special focus on the Konkan region. Also, students will acquire knowledge of the population and environmental issues related to it, urbanization in India, problems of Urbanization, Smart City Mission of India.

Skills

The student can depict various environmental hotspots with spatial context on the map.

General competence

The student can apply knowledge and study the environmental problems of the Konkan region that may be helpful for the sustainable development of the Konkan.

Required Previous Knowledge

Knowledge of association of various abiotic and biotic components is required.

Access to the Course

The course is available for all the students admitting for 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 -Map Filling c) Applied Question- Thematic Map Reading	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 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, ShardaPustakBhavan, 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, PrayagPustakBhavan, Allahabad, India
9. Ahirrao W.R. & others, ParyavaranVijnan (Marathi), Nirali Prakashan, Pune

Syllabus for First Year BA Programme in the subject of Geography

(With effect from the academic year 2019-2020)

SEMESTER-II

Geography Paper – II: Human Geography

COURSE CODE: ASPCCUEVS102

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 with reference to 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, 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.

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 the environmental management in the locality.

Required Previous Knowledge

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

Access to the Course

The course is available for all the students admitting for 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 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