AC Item No: AC-JUNE23-4.43

Parle Tilak Vidyalaya Association's

SATHAYE COLLEGE (AUTONOMOUS)

NAAC accredited 'A' Grade (3rd Cycle)

Dixit Road, Vile Parle (E), Mumbai-57

Affiliated to

University of Mumbai

SYLLABUS FOR
F. Y. B.Com.
Open Elective Course
Department of Geography
(Environmental Studies)
Under NEP 2020

To be implemented from Academic Year: 2023-2024

PREAMBLE:

PTVA's Sathaye College (Autonomous) believes in implementing several measures to bring equity, efficiency and excellence in higher education system in conformity to the guidelines laid down by the University Grants Commission (UGC). In order to achieve these goals, all efforts are made to ensure high standards of education by implementing several steps to enhance the teaching-learning process, examination and evaluation techniques and ensuring the all-round development of students.

The committee constituted for the preparation of the syllabus as well as the members of the Board of Study hereby suggest the curriculum for the students considering the programs and issues at all the levels, i.e. global, national, regional and local for better learning outcome. The curriculum framework is designed to accentuate the process of teaching and learning at undergraduate level (B.Com.) to make the students aware of the human as well as natural environment by sensitizing them. The focus is on spreading the awareness amongst the students to understand the components of environment, depletion of resources, effects of environmental degradation and also appreciate challenges to find the solutions.

It is observed over the years that uncontrollable human population and over exploitation of natural resources has placed tremendous pressure on our environment. In semester I the course content is designed by introducing concept and components of environment and ecosystems, natural resources and sustainable development, population and environment and urbanization and environment, whereas semester II comprises of agriculture and environment, industries and environment, waste management, environmental movements. The practical work related to distribution maps of environmental concerns designed to help students in developing map skills, emphasizing on the environment awareness and conservation measures.

OBJECTIVES:

1. To provide students with a broad interdisciplinary framework for understanding the relationship between humans and his surrounding environment.
2. To provide students with informed perspectives on environmental processes and environmental problems.
3. To nurture environment friendly behaviour and practice, and also to engage students in ethical reflection regarding environmental problems in local, regional, national, and global communities.
4. To equip students with the knowledge and skills necessary to pursue professional careers and advanced study related to the multi-faceted nature of environmental studies.
5. Students will integrate knowledge from multiple disciplines representing physical and social sciences.
6. To create an environmental awareness in relation to commerce.
7. To highlight functional, temporal and spatial links between environment, economy and society.
8. To create an insight into various environmental issues at various levels and need for environmental management for sustainable future.

SEMESTER-I

F.Y.B.A. / B.Sc. / B.Com. Environmental Studies OE – I (Theory)

Title: - ENVIRONMENTAL STUDIES – I

Course Credits: 02 **Course Code:** GBC1EVSOE0123

Pre-requisites:

Knowledge of basic concepts of human and natural environment from earlier education and observation.

Course Objectives:

1. To develop an in-depth understanding of components of environment, ecosystem, biodiversity at national and global importance.
2. To develop a balanced view of the relationship between man and environment as well as resources development and utilization and problems.
3. To develop a deeper concern for the primary economic activities and resources utilization.
4. To develop skills to investigative various environmental issues and participate in activities dealing with environmental problems.

Course Outcomes: On successful completion of this course students will be able to:

1. Demonstrate understanding about the concept and need of environment.
2. Exhibit an understanding of the various approaches of environmental awareness.
3. Gain awareness about the environmental assessment procedures and practices.
4. Demonstrate understanding about the concept and need of primary activities.
5. Appreciate the significance of environmentally sustainable practices.

Unit	Description	Lectures
I	**Introduction to Environment** 1.1 Environment- concept, components and types of environment 1.2 Composition of environment – lithosphere, atmosphere, hydrosphere, biosphere 1.3 Historical development of man-environment relationship - role of inventions and technology- Approaches	7
II	**Environment, Resources and Economy** 2.1 Resources- concept, classification and distribution 2.2 Role of resources in economy and development 2.3 Economy and economic activities- concept and classification	7
III	**Primary Economic Activities I** 3.1 Primary activities : concept, types and characteristics 3.2 Agriculture: types, factors and distribution of crops 3.3 Problems related to agriculture, Green revolution – Concept and Impact	7
IV	**Primary Economic Activities II** 4.1 Livestock and Fisheries: types and distribution – problems and solutions 4.2 Forestry: types, distribution, problems and solutions	7

	4.3 Mining: types, distribution, problems and solutions	
V	**Activities and projects (any one)** 1. Visit and survey of environmental assets or natural resources and primary economic activity. 2. Action research or project or assignment on problems of primary economic activity. 3. Map filling and reading related to environmentally significant features in the world.	**2**
	Total	**30**

EXAMINATION PATTERN

A) Continuous Internal Assessment (40 Marks):

Sr. No.	Particulars	Marks
1	One Assignment/Project work/Case study /Presentation /Seminar /Field visit reports/Book review etc. to be conducted in the given semester before Semester end examination.	20
2	One online/offline class test.	10
3	Active participation in regular class instructional deliveries and field work.	5
4	Overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing environment related activities	5

B) Semester End Examination (60 Marks):

Question Paper Pattern

1. These examinations shall be of 2 Hours duration. Maximum marks 60.
2. There shall be five questions each of 12 marks. On each unit there will be one question as per the directive of BOS.
3. All questions shall be compulsory with internal choice within the questions. (Each question will be of 12 marks with options.)
4. Question may be subdivided into sub-questions a, b and the allocation of marks depend on the weightage of the topic.

SEMESTER-II

F.Y.B.A. / B.Sc. / B.Com. Environmental Studies OE – II (Theory)

Title: - ENVIRONMENTAL STUDIES - II

Course Credits: 02 **Course Code:** GBC2EVSOE0223

Pre-requisites:

Introduction to modern ways of analysing the pattern of changing environment and industrialization.

Course Objectives:

1. To create an awareness of resources development and manufacturing.
2. To demonstrate the role of tertiary activities in economy and its impact on environment.
3. To highlight functional and spatial linkages of technology, environment, economy and society.
4. To create an insight into various environmental issues due to population explosion.

Course Outcomes:

On successful completion of this course students will be able to:

1. To exhibit the responses for role of technology and resources mobilization in regional development.
2. Critically evaluate the role of sustainable industrial practices especially in India.
3. Describes the tourism activities and its economic and socio-cultural consequences.
4. Classify the environmental issues and their impact on environment and society.
5. Adoption of environment friendly habits and responsible behaviour in use of resources like water, electricity.

Unit	Description	Lectures
I	**Industries and Environment** 1.1 Manufacturing and industries : types, factors and distribution 1.2 Industrial location theories: Weber 1.3 Distribution of industries and industrial regions, Problems and remedies related to industries	7
II	**Transport, Trade, Tourism and Environment** 2.1 Transport and Trade: types and pattern of distribution and international organization 2.2 Tourism: meaning, nature, types, importance and challenges in India 2.3 Tourism: resources, impact on environment and economy, tourism policies	7
III	**Urbanization and Environment** 3.1 Concept, types and processes and distribution of urbanization in India 3.2 Urban problems: environmental, economic, socio-cultural-causes and effects 3.3 Emerging smart cities, sustainable cities and liveable cities	7

IV	**Population and Environment** 4.1 Population: growth, factors and distribution 4.2 Demographic transition theory 4.3 Trend of population growth and explosion– problems and policies in India	**7**
V	**Activities and projects (any one)** 1. Visit and survey of environmental assets or natural resources and primary economic activity. 2. Action research or project or assignment on problems of primary economic activity. **3.** Map filling and reading related to environmentally significant features in India.	**2**
	Total	**30**

1. Environmental Geography by Dr. Alka Gautam, Sharda Pustak Bhavan, Allahabad
2. Dr. Pushpendra, Basics in Environmental Studies
3. Swapan Deb, Environmental Management.
4. Ministry of Urban Development official Website for Smart Cities
5. Ward, Hugh eds, The Sage Handbook of Environment and Society.
6. Sundar I, Environment and Sustainable Development.
7. Majid Hussain, Human Geography.
8. World Development Report- Annual
9. Census of India, 2011
10. Pandey, B ed, Natural Resource Management
11. Sarsby, R. eds, The Exploitation of Natural Resources and the Consequences.
12. Knight. et. al. eds, A New Century for Natural Resources Management.
13. Bagad Anjali, Environmental Studies.
14. Beuren, Allan et. Al, Sustainable Urban Environments: An Ecosystem Approach.
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16. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
17. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India, Email: mapin@icenet.net (R)
18. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
19. Clark R.S., Marine Pollution, Clanderson Press Oxford (TB)
20. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
21. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
22. Down to Earth, Centre for Science and Environment (R)
23. Gleick H.P. 1993. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute Oxford Univ. Press. 473p
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26. Jadhav, H & Bhosale, V.M. 1995. Environmental Protection and Laws. Himalaya Pub. House, Delhi 284 p.
27. McKinney M.L. & School, R.M. 1996. Environmental Science systems & Solutions, Web enhanced edition. 639p.

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BoS Members in Geography

Sr. No.	Name	Category	Affiliation
1	Shri. D D Bombe	Head of the Department **(Chairman).**	Sathaye College University of Mumbai
2	Dr. Prabir Kumar Rath	Subject Expert Outside Parent University	Government College, Khandola, Goa Goa University
3	Dr. Sachin Deore	Subject Expert Outside Parent University	Professor, Department of Geography, SNDT Women's University, Pune
4	Dr. Anita Awati	Subject Expert Nominated by VC	ICS College, Khed University of Mumbai
5	Shri Pranav Raut	Industry/corporate sector/allied area relating to placement	Director, Mahi Geoinformatics Consultancy (OPC) Private Limited
6	Mrs. Vrushali Kadam Panchal	Post-graduate meritorious alumnus	KES Shroff College, Kandiwali (W), University of Mumbai
7	Dr. Prakash Dongre	Experts from outside the College (parent university)	N K College, Malad University of Mumbai
8	Dr. Udhav Zarekar	Experts from outside the College (parent university)	Jai Hind College, Churchgate University of Mumbai
9	Shri Abhijit Awhad	Faculty of the Department	Sathaye College University of Mumbai
10	Smt. Kasturi Medhekar	Faculty of the Department	Sathaye College University of Mumbai