



**Rayat Shikshan Sanstha's
KARMAVEER BHURAO PATIL COLLEGE,
VASHI,
AUTONOMOUS COLLEGE**

Sector-15- A, Vashi, Navi Mumbai -400 703

NAAC Grade "A+" with CGPA 3.53

Syllabus

Program: F. Y. B.A.

Course: Environmental Science

Semester: I and II

**(As per Choice Based Credit System
with effect from the academic year 2021-22)**

Syllabus of F.Y.B.A. Environmental Science, 2021-22

Syllabus for F.Y.B.A. Course in the subject of Environmental Science
(With effect from the academic year 2021-22)

Program: B.A.

Course: Environmental Science

Sr. No.	Semester	Course Code	Paper Title	Credit	L/W
1	I	UGES 101	Environmental Science - I	3	3
2	II	UGES 201	Environmental Science - II	3	3

Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	1. Environmental Science - I 2. Environmental Science - II
2	Eligibility for Admission	12 th Pass
3	Passing Marks	40
4	No. of Semester	I and II
5	Level	U.G.
6	Pattern	Semester
7	Status	
8	To be implemented	From Academic Year: 2021-22

Date: _____

Signature: _____

Name of the BOS Chairman: _____

Core Course (CC)
ENVIRONMENTAL SCIENCE-I

Course Objective:

- Enhance the ability to apply this knowledge and proficiency to find solutions relating to environmental concerns of varied dimensions of present times
- Provide with a direction and technical capability to carry on lifelong learning and show teamwork and collaborative endeavour, and decision making

Course Outcome:

- Knowledge of the environment and the role of human beings in shaping the environment.
- Appreciate attributes of natural resource use and management.
- Systematically understand biodiversity and its vital role in ecosystem function

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Environment and Ecosystem	15
2	Natural Resources	15
3	Biodiversity Conservation and Environmental issues	15

DEPARTMENT OF GEOGRAPHY		
ENVIRONMENTAL SCIENCE-I		
F.Y.B.A. SEMESTER: I COURSE CODE: UGES 101, Credits: 03		

Units	Name of the sub Topics	No of Lectures
Unit – I Environment and Ecosystem		
1.1	Environment: Meaning, definition and its components;	15
1.2	Scope and importance of environmental studies	
1.3	Concept of an ecosystem: Structure, Functions and Types of Ecosystem	
1.4	Important Ecological Concepts: Food Chain and food Web , Ecological Pyramid	
Unit – II Natural Resources		
2.1	Meaning and definition; Classification of resources,	15
2.2	Deforestation : Causes and impacts	
2.3	Water : use and over exploitation of surface and ground water, floods, droughts.	
2.4	Energy resouces : Renewable and non-renewable energy sources, use of alternate energy source.	
Unit – III Biodiversity Conservation and Environmental issues		
3.1	Level of biological diversity: Genetic, Species, and Ecosystem Diversity;	15
3.2	Biogeographic zones of India; Biodiversity Hot Spots in India; Endangered species of India.	
3.3	Threats to biodiversity : Habital loss, poaching of wildlife, man wildlife conflicts.	
3.4	Conservation of Biodiversity : In situ and Ex-situ conservation of biodiversity	
Note: Yellow Highlighted Topic / Course is related to professional ethics, gender, human values, Environment & sustainability		

REFERENCES:

1. Erach Bharucha, 2010, Textbook of Environmental Studies, University Grant Commission,.
2. P.G. Shinde, et.al, 2018, Environmental Studies, Sheth Publisher Pvt. Ltd.
3. Savindra Singh, 2016, Environmental Geography, Pravalika Publication, Allahabad.
4. Vibbha Kumar, et.al, 2018, Environmental Studies, Himalaya Publisher Pvt. Ltd.
5. Baishakhi Dutta, et.al, 2018, Environmental Studies, Vipul's Publisher Pvt. Ltd.
6. Amrit & Chakraborti, et.al, 2018, Environmental Studies, Manan Publisher Pvt. Ltd.

Core Course (CC)
ENVIRONMENTAL SCIENCE-II

Course Objective:

- Enhance the ability to apply this knowledge and proficiency to find solutions relating to environmental concerns of varied dimensions of present times
- Provide with a direction and technical capability to carry on lifelong learning and show teamwork and collaborative endeavour, and decision making

Course Outcome:

- Identify the case specific issues related to pollution potentials of solid wastes
- Understand the characteristic of wastes and the systems, and processes of waste management.
- Ability to draw conclusions form environmental movements, environmental legislations,

Modules at a Glance

Unit No.	Unit	Unit Wise Weightage of Marks (in %)
1	Environmental pollution and policies	15
2	Waste Management	15
3	Environmental Movements	15

DEPARTMENT OF GEOGRAPHY
ENVIRONMENTAL SCIENCE-II
 F.Y.B.A. SEMESTER: II COURSE CODE: UGES 201, Credits: 03

Units	Name of the Sub Topics	No of Lectures
Unit – I Environmental pollution and policies		
1.1	Environmental Pollution: Types, Causes, effects and controls; Air, Water, Soil and Noise pollution.	15
1.2	Global Environmental Issues: Climate change, global warming, ozone layer depletion acid rain	
1.3	Environment laws: Environment protection act; Air (Prevention and control of Pollution) Act; water (Prevention and control of pollution) act; Wildlife protection act; forest conservation act.	
Unit – II Waste Management		
2.1	Meaning, classification of waste, Sources of waste.	15
2.2	Types of Waste; Problems associated with Waste	
2.3	Role of citizens in waste management	
Unit – III Environmental Movements		
3.1	Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats movement	15
3.2	Concept of Carbon Bank and Carbon Credit , ecological footprint	
3.3	Human Population growth : Impact on environment, Disaster management (Flood, cyclone, earthquake)	
Note: Yellow Highlighted Topic / Course is related to professional ethics, gender, human values, Environment & sustainability		

REFERENCES:

1. Erach Bharucha, 2010, Textbook of Environmental Studies, University Grant Commission,.
2. P.G. Shinde, et.al, 2018, Environmental Studies, Sheth Publisher Pvt. Ltd.
3. Savindra Singh, 2016, Environmental Geography, Pravalika Publication, Allahabad.
4. Vibbha Kumar, et.al, 2018, Environmental Studies, Himalaya Publisher Pvt. Ltd.
5. Baishakhi Dutta, et.al, 2018, Environmental Studies, Vipul's Publisher Pvt. Ltd.
6. Amrit & Chakraborti, et.al, 2018, Environmental Studies, Manan Publisher Pvt. Ltd

Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil College, Vashi
(Autonomous College)
Department of Geography
Sem. - I and II, F.Y.B.A. Environmental Science
Evaluation Pattern

SCHEME OF EXAMINATION:

The performance of the learners shall be evaluated into two parts viz continuous Internal Evaluation and Semester End examination. In both semester internal assessment with 40% marks and semester End Examinations with 60% marks. The allocation of marks for the Continuous Internal Assessment and Semester End Examinations are as shown below:-

CONTINUOUS INTERNAL ASSESSMENT- 40 MARKS

Evaluation type	Marks
Internal Evaluation	40
a. Online Examination	20
b. Assignment / Oral / PPT	10
c. Cleanliness Program / Paper Bags and Making of things from waste out of best/ Project	10

SEMESTER END EXAMINATION- 60 MARKS

- Duration – 2 Hours for each paper.
- All questions shall be compulsory with internal choice within the questions.
- Questions shall be subdivided into sub-questions

Questions	Questions	Marks
1	Answer in 20 word each. (Any five of Eight)	10
2	Write short notes in 50 words (Any Three of Eight)	15
3	Answer in 150 words each (Any Two of Three)	20
4	Answer in 300 words each (Any One of Two)	15