

**MAHARSHI KARVE STREE SHIKSHAN SAMSTHA'S
COLLEGE OF COMPUTER APPLICATION
FOR WOMEN, SATARA**

**[Faculty: B.C.A., B.A. & B.Com.]
Affiliated to SNDTWU, Mumbai**

Criterion 1 - Curricular Aspects

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

Proofs:

- List of courses**
- Syllabus**

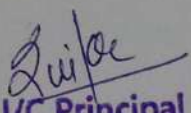
MAHARSHI KARVE STREE SHIKSHAN SAMSTHA'S
COLLEGE OF COMPUTER APPLICATION FOR WOMEN, SATARA
(Faculty: B.C.A., B.A., B.Com)

**List of courses that include experiential learning through project
work/field work/internship**

Sr. No.	Program name	Program code	Name of the Course	Course code
1	BCA	059	Project	6201
2	BCOM	002	Environmental Studies	245209
3	BCOM(Vocational)	002	Environmental Studies	245209
4	BA(English)	001	Environmental Studies	230400
5	BA(Economics)	001	Environmental Studies	230400


IQAC
Coordinator




I/C Principal
College of Computer Application
For Women, Satara
(Faculty B.C.A., B.A., B.Com.)

B.A. Part- I Semester II

Foundation Course IV

Environmental Studies

Credits: 4

Lectures: 60

Marks: 100

Objectives: To bring about an awareness of a variety of environmental concerns.

To create a pro-environmental attitude and a behavioral pattern which is based on creating sustainable lifestyles.

To achieve a total behavioral change in student community.

Course content	Credits	Lectures	Marks
I) The Multidisciplinary Nature of Environmental Studies (2 lectures)	Unit-	Unit-	Unit-
a) Definition, Scope and Importance	I	I	I
b) Need For Public Awareness			
II) Natural Resources (8 lectures)	II	II	II
Renewable And Non-Renewable Resources			
Natural resources and associated problems.	&	&	&
a. Forest Resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people	III =	III =	III =
b. Water Resources: Use and over-utilisation of surface and ground water, floods, drought, conflicts over water, dams – benefits and problems.	1	15	25
c. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.	credit	lectures	marks
d. Food Resources: World food problems, Changes caused by agriculture and grazing, Effects of modern agriculture, Fertilizer, pesticide problems, Water logging and salinity case studies.			
e. Energy Resources: Increasing energy needs. Renewable/ non renewable, Use of Alternate energy sources, Case studies			
f. Land resources: Land as a resource, land degradation, man induced land-slides, soil erosion and desertification.			
- Role of an Individual in Conservation of Natural Resources			
- Equitable Use of Resources for Sustainable Lifestyles			

III) Ecosystems (5 lectures) Concept of an Ecosystem Structure and Functions of an Ecosystem Producers, Consumers and Decomposers Energy Flow in the Ecosystem Ecological Succession Food Chains, Food Webs and Ecological Pyramids Introduction, Types, Characteristic Features, Structure and Functions of the following ecosystem: a) Forest Ecosystem b) Grassland Ecosystem c) Desert Ecosystem d) Aquatic Ecosystems (Ponds, Lakes, Streams, Rivers, Estuaries, Oceans)			
IV) Biodiversity and its conservation (7lectures) Introduction – Definition: Genetic, Species & Ecosystem Diversity Biogeographical Classification of India Value of Biodiversity: Consumptive, Productive Use, Social, Ethical, aesthetic and option values. Biodiversity at Global, National and Local Levels India as a Mega Diversity Nation Hot-spots of Biodiversity Threats to Biodiversity: Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts. Endangered and Endemic Species of India Conservation of Biodiversity: In-Situ And Ex-Situ situation.	Unit- IV & V = 1 credit	Unit- IV & V = 15 lectures	Unit- IV & V = 25 marks
V) Environmental Pollution (8 lectures) Definition Causes, Effects and Control Measures of: Air Pollution Water Pollution Soil Pollution Marine Pollution Noise Pollution Thermal Pollution Nuclear hazards Solid Waste Management: Causes, Effects and Control Measures of Urban and Industrial Wastes. Role of Individuals in Prevention of Pollution. Pollution Case Studies Disaster Management: Floods, Earthquakes, Cyclones, Landslides			

VI) Social Issues and the Environment (9 lectures) From Unsustainable to Sustainable Development Urban Problems related to Energy Water Conservation, Rain Water Harvesting, Watershed Management. Resettlement and Rehabilitation of People; its Problems and Concerns Case Studies. Environmental Ethics: Issues and Possible Solutions Climate Change, Global Warming, Acid Rain, Ozone Layer Depletion, Nuclear Accidents and Nuclear Holocaust. Case Studies. Wasteland Reclamation Consumerism and Waste Products Environment Protection Act Air (Prevention and Control of Pollution) Act 194 Water (Prevention and Control of Pollution) Act 196 Wildlife Protection Act 197 Forest Conservation Act 199 Issues involved in Enforcement of Environmental Legislation Public Awareness	Unit-	Unit-	Unit-
	VI & VII = 1 credit	VI & VII = 15 lectures	VI & VII = 25 marks
VII) Human Population and the Environment (6 lectures) Population Growth, Variation Among Nations. Population Explosion – Family Welfare Program. Environmental and Human Health Human Rights Value Education: Environmental Values, Valuing Nature, Valuing cultures, Equitable use of Resources Role of Information Technology in Environment and Human Health			
	1 credit	15 lectures	25 marks
VIII) Field Work Visit to a Local area to document Environmental Assets- River/Forest/Grasslands/Hill/Mountain. Visit to a Local Polluted Site Study of Common Plants, Insects, Birds. Study of Simple Ecosystems- pond, river, hill slopes, etc.			

IQAC
Coordinator



I/C-Principal
College of Computer Application
For Women, Solara
(Faculty B.C.A., B.A., B.Com.)

SEMESTER II
ENVIRONMENTAL STUDIES
Computer Code 245209
4 Credits

ABOUT THE COURSE:

The course content aims to provide an overview to students about environment and its conservation.

External Exam: 75 Marks

Internal Exam: 25 Marks

Unit	TOPIC	Weightage	No. of Hours	No. of Credits
Unit I	Environment Studies and Population Objective: To acquaint the students about environment studies and population explosion. Contents: Environment Studies: Definition – Scope – Importance. Population: Population growth – factors affecting density of population – population explosion – family welfare programme – Environment and human health.	25	15	1
Unit II	Objective: To make students aware about different resources and their conservation. Contents: Natural Resources Types – Renewable – Non-Renewable a. Forest Resources Use and overexploitation, Deforestation – Causes and Effects, Timber Extraction, Mining, Dams and their effects on forest and Tribal People.	25	15	1

Unit III	<p>b. Water Resources</p> <p>Use and overexploitation of surface and ground water, Floods Droughts, Dams – Benefits and Problems, Water Conservation, Water Management.</p> <p>c. Food Resources</p> <p>World Food Problems – Over grazing, Effects of Modern agriculture, Fertiliser - Pesticide problem, Water-logging, Salinity.</p> <p>d. Energy Resources</p> <p>Growing Energy Needs, Renewable – Non-Renewable Energy Sources, Hydroelectricity.</p> <p>- Role of Individual in conservation of natural resources.</p> <p>- Equitable use of resources for sustainable lifestyle.</p> <p>Objective:</p> <p>To make students understand the concept of ecosystem.</p> <p>Contents:</p> <p>Ecosystem</p> <p>- Concept of an ecosystem - Meaning</p> <p>- Structure and function of an ecosystem</p> <p>- Producers, consumers and Decomposers</p> <p>- Food chains, food webs and ecological pyramids.</p> <p>- Introduction, types, characteristic features</p> <p>Structure and function of the following ecosystem :</p> <p>a. Forest ecosystem, b. Grassland ecosystem c. Aquatic ecosystem (ponds, streams, lakes, rivers, ocean estuaries)</p> <p>Objective: To make students aware about different types of pollution and its prevention.</p>	25	15	1
Unit IV		25	15	1

<p>Contents:</p> <p>Environmental Pollution</p> <p>Definition – Types – Causes and Effects and Control measures of the following :</p> <p>a. Air pollution, b. Water pollution, c. Soil pollution, d. Noise pollution, e. Marine pollution.</p> <p>- Disaster Management – Floods, earthquake, cyclone and landslides.</p> <p>- Role of individual in prevention of pollution.</p>			
--	--	--	--

Internal Assignment	Marks
<p>Field Work</p> <p>- Visit to local area to document environmental asset – rivers/forest/hill/mountain/grassland.</p> <p>- Visit to local polluted site – Urban / Rural / Industrial / Agricultural.</p> <p>- Study of common plants, birds.</p>	25

References:

1. Agarwal, K.C., 2008, Environmental Biology, Nidhi Publishers, Bikaner
2. Bharucha Erach, 2006, The Biodiversity of India, Mapin Publishing Pvt. Ltd. Ahmedabad.
3. Brunner R.C., Hazardous waste incineration, McGraw Hill Inc
4. Clark R., 2001, Marine Pollution, Oxford University Press
5. Jadhav H. & Bhosale, V.M, 2015, Environment Protection and Laws, Himalaya Publishing House, Pvt. Ltd., New Delhi
6. Odum E. P., 2004, Fundamentals of Ecology, (5th Revised Edition), Brooks/Cole
7. Mhaskar A.K, Matter Hazardous, Techno-Science Publications (Text Book).
8. Survey of the Environment, The Hindu (Magazine)
9. Trivedi R.K, Goel P.K, Introduction to Air Pollution, Techno-Science Publications (Text Book).


IQAC
Coordinator




I/C Principal
College of Computer Application
For Women, Satara
(Faculty B.C.A., B.A., B.Com.)

Branch: BCA	Semester-VI
Subject Code: 6201	Practical: 04 Credit: 04
Subject Title	Project*

Module	Sr. No.	Topic and Details	No of Lectures/Practicals Assigned	Marks Weight age %
UNIT-I	1	Problem Definition	5	8
UNIT-II	2	Analysis	5	8
UNIT-III	3	Design	5	8
	4	Coding	25	10
UNIT-IV	5	Testing	5	10
	6	Demonstration & Project Report	5	6
Total			50	100

Prepare and submit a progress report in stipulated time. Panel consisting of two/three teachers (internal) should evaluate the progress work, presentation, and project coding and implantation work. There shall be one guide from institution. Co-guide from an industry is recommended in case of industry sponsored projects. Each candidate should have documented copy of the project certified by head/principal, in order to appear for project examination. A group recommended of 2 to 4 students. (maximum 5 in case of special projects). Each student shall individually involve in separate module/activity of the project. Prepare and submit a progress report in stipulated time. Panel consisting of two experts (one internal and one external) should evaluate the progress, presentation, and project work. Marks should be distributed on the basis of Understanding the project, depth of knowledge achieved in regard to solution providing, Approach and methodologies suggested towards solution, report writing, presentation, technical content, prototype implemented, and references used, etc. The time allotted for presentation is maximum 30 minutes. The candidate will be examined by the examiners on 50:50 basis. In case of dispute, decision by external will be final.


IQAC
Coordinator




I/C Principal
College of Computer Application
For Women, Satara
(Faculty B.C.A., B.A., B.Com.)