

MAHATMA GANDHI VIDYA MANDIR'S  
**ARTS, COMMERCE & SCIENCE  
COLLEGE**

QUIDWAI ROAD MALEGAON CITY -423203

**Guidelines  
CERTIFICATE  
COURSE IN  
Environmental  
Studies**

**2017-18**

## **Art's Commerce and Science college , Malegaon city**

### **Certificate course in Environmental Studies**

- **Introduction:**

- Environmental studies is a multidisciplinary academic field which systematically studies human interaction with the environment in the interests of solving complex problems. Environmental studies brings together the principles of the physical sciences, commerce/economics and social sciences so as to solve contemporary environmental problems. It is a broad field of study that includes the natural environment, the built environment, and the sets of relationships between them. The field encompasses study in basic principles of ecology and environmental science, as well as associated subjects such as ethics, geography, anthropology, policy, politics, law, economics, philosophy, sociology and social justice, planning, pollution control and natural resource management. There are also many degree programs in Environmental Studies including the Master of Environmental Studies and the Bachelor of Environmental Studies.

- **Objectives:**

- (a) Creating the awareness about environmental problems among people.
- (b) Imparting basic knowledge about the environment and its allied problems.
- (c) Developing an attitude of concern for the environment.
- (d) Motivating public to participate in environment protection and environment improvement.
- (e) Acquiring skills to help the concerned individuals in identifying and solving environmental problems.
- (f) Striving to attain harmony with Nature.

- **Course Detail:**

1)Eligibility	:	12 <sup>Th</sup> Pass
2)Duration	:	03 Month
3)Intake Capacity	:	50 Students
4)Total Credit	:	03 credit( practical 02, Theory 01)
5)Fees:	:	Free of Cost

# SYLLABUS FOR ENVIRONMENTAL STUDIES

Total Credit : 3

UNIT NO	TOPICS	HOURS
<b>1</b>	<b>The Multidisciplinary Nature of Environmental Studies</b> Definition, scope and importance Need for public awareness.	<b>3</b>
<b>2</b>	<b>Natural Resources</b> <b>Renewable and Non-renewable Resources:</b> Natural resources and associated problems. (a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on .(b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.	<b>2</b>
<b>3</b>	<b>Ecosystems:</b> <ul style="list-style-type: none"> <li>• Concept of an ecosystem.</li> <li>• Structure and function of an ecosystem.</li> </ul> (a) Forest ecosystem (b) Grassland ecosystem (c) Desert ecosystem	<b>3</b>
<b>4</b>	<b>Biodiversity and Its Conservation</b> <ul style="list-style-type: none"> <li>• Introduction, definition: genetic, species and ecosystem diversity.</li> <li>• Biogeographical classification of India.</li> <li>• Value of biodiversity</li> </ul>	<b>2</b>
<b>5</b>	<b>Environmental Pollution</b> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Causes, effects and control measures of</li> </ul> (a) Air pollution (b) Water pollution (c) Soil pollution (d) Marine pollution (e) Noise pollution	<b>2</b>
<b>6</b>	<b>Social Issues and the Environment</b> <ul style="list-style-type: none"> <li>• From unsustainable to sustainable development.</li> <li>• Urban problems related to energy.</li> <li>• Water conservation, rain water harvesting, watershed management.</li> </ul>	<b>3</b>
<b>7</b>	<b>Field Work: (Practicals)</b> <ul style="list-style-type: none"> <li>• Field Study/Visit ( Water filter plant )</li> <li>• Tree Plantation</li> <li>• Study of common plants, insects, birds.</li> <li>• Visit to a local polluted site-Urban/Rural/Industrial/Agricultural</li> </ul>	<b>60</b>

**Total Hours : 75**

### Recommended Books:

1. Agarwal KC, 2001. Environmental Biology, Nidi Publishers Ltd. Bikaner
2. Clark RS, Marine Pollution, Clarendon Press, Oxford (TB).
3. Miller TG, Jr. Environmental Science, Wadsworth Publishing CO. (TB)
4. Odum EP, 1971. Fundamentals of Ecology. WB Saunders Co. USA, 574pgs.
5. Rao MN and Datta AK, 1987. Waste Water Treatment. Oxford and IBH Publishing Co. Pvt.Ltd.

345pgs.

6. Brunner RC, 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480pgs.

7. Bharucha Erach, 2003. The Biodiversity of India, Mapin Publishing Pvt. Ltd, Ahmedabad – 380013, India.

8. Hawkins RE, Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)

• **List of Internal / Visiting Faculty:**

<b>Sr. No.</b>	<b>Name</b>	<b>Mobile No.</b>
1	Professor Arif Anjum (vice Principal)	<b>9764558895</b>
2	Professor Rizwan Ah. (Incharge of Science Departments)	<b>9028500548</b>
3	Professor Mujahid Kazzafi (HOD of Chemistry Department)	<b>9405635395</b>
4	Professor Ziyaurrahman Z.K (HOD of Zoology Department)	<b>8796782876</b>
5	Professor Parvez Akhtar (Assistant Professor)	<b>8149493866</b>
6	Professor Shaziya Naushen (Assistant Professor)	<b>8793910981</b>

• **Board of Studies:**

<b>Sr. No.</b>	<b>Name</b>	<b>Mobile No.</b>
1	Professor SC Hale (Principal) Arts, commerce and Science College Malegaon City	<b>9168467111</b>
2	Professor Arif Anjum (vice Principal) Arts, commerce and Science College Malegaon City	<b>9764558895</b>
3	Masood J. Mahvi (Assistant Professor) M.S.G. College Malegaon Camp	<b>8087942796</b>
4	Professor Rizwan Ah. (Incharge of Science Departments) Arts, commerce and Science College Malegaon City	<b>9028500548</b>
5	Professor Mujahid Kazzafi (HOD of Chemistry Department) Arts, commerce and Science College Malegaon City	<b>9405635395</b>
6	Professor Ziyaurrahman Z.K (HOD of Zoology Department) Arts, commerce and Science College Malegaon City	<b>8796782876</b>
7	Professor Parvez Akhtar (Assistant Professor) Arts, commerce and Science College Malegaon City	<b>8149493866</b>
8	Professor Shaziya Naushen (Assistant Professor) Arts, commerce and Science College Malegaon City	<b>8793910981</b>
9	Professor Rahmani Mudassir (Assistant Professor) Arts, commerce and Science College Malegaon City	<b>9518586400</b>
10	Professor Sk. Sana (Assistant Professor) Arts, commerce and Science College Malegaon City	<b>8788589573</b>
11	Prof. Pathan Moshin Khan J.A.T Arts, Science and Commerce College Malegaon.	<b>9890839084</b>





**Inaugural Function Environmental Studies**



**Examination**



**Environmental Studies Lectures has been done by Prof. Shaziya**



**Environmental Studies Lecture done by Prof. Parvez Akhtar**





MAHATMA GANDHI VIDYAMANDIRS

# ARTS, COMMERCE & SCIENCE COLLEGE

Malegaon City, 423203 Dist Nashik. (M.S.)



## "CERTIFICATE COURSE IN ENVIRONMENTAL STUDIES"

*Conducted by*

*Faculty of Science (B.Sc.)*

**CERTIFICATE**

*This is to certify that Mr. / Ms. ....*

*of the class ..... has successfully completed the course and secured CGPA of ..... and*

*..... Grade in the Examination.*

*Date :*

(Dr. Arif Anjum)  
Vice Principal

Sample

(Prof. Rizwan Ahmed)  
Coordinator

(Shivanand C. Hale)  
Principal