

**SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2022 - PART TWO - 635**

**NOTIFICATION**

No. 136/2022

Date : 22/09/2022

**Subject :** Implementation of the Syllabus of the compulsory subject Environmental Studies to all the Under-graduate examinations in all the Faculties of the University from the session 2022-23 onwards.

**Ref'ce :** (i) SGBAU, Amravati Gazette Part – II Notification No. 121/2005 dtd. 03/06/2005.  
(ii) SGBAU, Amravati Gazette Part – II Notification No. 35/2021 dtd. 01/04/2021

It is notified for general information of all concerned that the authorities of the University have accepted to implement the syllabus of the compulsory subject Environmental Studies to all the Under-graduate examinations in all the Faculties of the University which was exclusively for Engineering & Technology Group (Excluding Architecture) in the Faculty of Science & Technology and notified vide SGBAU Notification no. 35/2021 dtd. 01/04/2021 from the session 2020-21 and onwards as per Appendix 'A'.

The list of references as mentioned vide reference No. 1 and the marks as mentioned in the Schemes of Engineering & Technology streams and all other exams in all the Faculties will remain unchanged.

Sd/-  
(Dr. Tushar Deshmukh)  
Registrar  
Sant Gadge Baba Amravati University

**Appendix 'A'**

Syllabus of the Compulsory Subject Environmental Studies [For all the U.G. examinations in all the Faculties]

**Course Title: ENVIRONMENTAL STUDIES**

(Total : 100 Marks)

(A) Course Contents :

[(i) 80 Marks – Engg. & Tech. exams]  
[(ii) 70 Marks – remaining all exams.]

**Unit I: (a) The Multidisciplinary nature of environmental studies:**

Definition, Principles, Scope and importance, Man and Environment, Need for public awareness.

(b) **Natural Resources:** Renewable and non renewable resources:

Availability, use, overexploitation and associated environmental problems related to following Natural resource:

- Forest resources;
- Water resources;
- Mineral Resources;
- Food Resources;
- Energy Resources;
- Land Resources;
- Role of individual in conservation of natural resources'

**Unit II: Ecosystems :**

- Concept and components of an ecosystem.
- Types of ecosystem
- Structure and function of forest and pond ecosystem.
- Energy flow in the ecosystems.
- Food chains, food webs and ecological pyramids.
- Ecological succession: General mechanism

**UNIT III: Biodiversity and it's Conservation :**

- Introduction, definition and types of biodiversity.
- Bio-geographical classification of India.
- India as a mega diversity nation
- Hot spots of biodiversity.
- Threats to biodiversity: habitats loss, poaching of wild life, man wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity: in-situ and ex-situ conservation of biodiversity.

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UNIT IV: Environmental Pollution :

- Definition, Causes, effects and control measures of: a. Air pollution b. Water pollution c. Soil pollution d. Noise pollution e. Nuclear hazards.
- Solid waste Management: Principles, method, and significance
- Disaster management: Floods, earth quake, cyclone and landslides

Unit V: Social issues and the Environment :

- From unsustainable to sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, water shed management
- Environmental ethics: issues and possible solutions
- Climate change, global warming, acid rain, ozone layer depletion and nuclear accidents
- Wasteland reclamation
- Environmental Legislation: Environment protection Act (1986); Air (prevention and control of pollution) Act (1981-82); Water (prevention and control of pollution) Act (1974); Wildlife protection act (1972); Forest conservation act (1980). Issues involved in enforcement of environmental legislation

Unit VI: Human population and the environment :

- Population growth and variation among nations
- Population explosion- family welfare program
- Environment and human health
- Human rights
- Value education
- HIV / AIDS
- Women and child welfare
- Role of information technology in environment and human health

(B) Field work: Project report / Internal work / Survey

[(i) 20 Marks – Engg. & Tech. exams]

[(ii) 30 Marks – remaining all exams.]

- Visit to a local area to document environmental assets - river / forest / grassland / hill / mountain.
- Visit to a local polluted site - urban / rural / industrial / agricultural.
- Study of local plant - insects, birds.
- Study of local ecosystems - pond, lake, river, forest, etc.

Recommended Books:

1. Text Book of Environmental studies, Erach Bharucha, UGC.
2. Fundamental concepts in Environmental Studies, D D Mishra, S Chand & Co Ltd.
3. Ecology and Environment, P. D' Souza
4. Ecology, M. P. Arora, Himalaya Publishing House



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Principal  
Jijamata Arts College  
Darwha Dist. Yavatmal