



Pune District Education Association's
Annasaheb Magar Mahavidyalaya

Hadapsar, Pune- 411028

Affiliated to Savitribai Phule Pune University, Pune



Self Study Report: 2024 (4th Cycle)



Criterion - 1
Curricular Aspects

Key Indicator- 1.3 Curriculum Enrichment

Metric: 1.3.2(QnM)

Percentage of students undertaking project work/field work/ internships



Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL BENGALURU



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Annasaheb Magar Mahavidyalaya
Hadapsar Pune - 411028



SYBBA (IB) Environmental Project 2022- 2023

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SPPU Environmental Awareness Syllabus

Syllabus for

Ability Enhancement Compulsory Course (AECC – Environment Studies)(2 credit) for under graduate

(For All Faculties - Second Year - Semester III)

It is as per UGC guidelines and framing -

Unit 1 : Introduction to environmental studies

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

(2 lectures)

Unit 2 : Ecosystems

- What is an ecosystem? Structure and function of ecosystem ; Energy flow in an ecosystem : food chains, food webs and ecological succession. Case studies of the following ecosystems :
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(8 lectures)

Unit 3 : Natural Resources : Renewable and Non-renewable Resources

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water : Use and over-exploitation of surface and ground water, floods, droughts conflicts over water (international & inter-state).
- Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

(10 lectures)

Unit 4 : Biodiversity and Conservation

- Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services : Ecological, economic, social, ethical, aesthetic and Informational value.

(10 lectures)

References :

1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.





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9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
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19. Wilson, E. O. 2006. The Creation: An appeal to save life on earth. New York : Norton.
20. World Commission on Environment and Development. 1987. Our Common Future. Oxford University Press.





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(For All Faculties - Second Year - Semester IV)

It is as per UGC guidelines and framing -

Unit 5 : Environmental Pollution

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management : Control measures of urban and industrial waste.
- Pollution case studies.

(10 lectures)

Unit 6 : Environmental Policies & Practices

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

(9 lectures)

Unit 7 : Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management : floods, earthquake, cyclones and landslides.
- Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi).

(6 lectures)

Unit 8 : Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.





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- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

(Equal to 5 lectures)

References :

1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R. 1993. This Fissured Land: An Ecological History of India. Univ. of California Press.
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Environmental Studies Project

CERTIFICATE

This is to certify that this project has been made by **PURVA RITESH PURI** of class **SYBBA(IB)** on the topic "**Environment Pollution**" from **26/10/2022** to **30/10/2022**, Sem-III under the guidance of our HOD Prof. Shaikh R.C. of BBA Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune – 411028 and have been completed it successfully...


Prof. Shaikh R.C
Project Guide


Dr. Nitin Ghorpade
Principal



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This is to certify that this project has been made by **SATBHAI SIDDHI SANJAY** of class **SYBBA(IB)** on the topic "**Air Pollution**" from **26/10/2022 to 30/10/2022**, Sem-III under the guidance of our HOD Prof. Shaikh R.C. of BBA Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune – 411028 and have been completed it successfully...


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This is to certify that this project has been made by **SHAIKH SUFIYAN HAMID** of class **SYBBA(IB)** on the topic "**Soil Pollution**" from **26/10/2022 to 30/10/2022**, Sem-III under the guidance of our HOD Prof. Shaikh R.C. of BBA Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune – 411028 and have been completed it successfully...

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This is to certify that this project has been made by **KALE AMOL BALASAHEB** of class **SYBBA(IB)** on the topic "**Noise Pollution**" from **26/10/2022 to 30/10/2022**, Sem-III under the guidance of our HOD Prof. Shaikh R.C. of BBA Department, Annasaheb Magar Mahavidyalaya, Hadapsar Pune – 411028 and have been completed it successfully...


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