

B. B. A. I (NEP-2020)
Vertical: Value Added Course
Subject Code: -500101

(Semester-I)

Subject Title: Environmental Science and Sustainability

Level	Semester	Course Code	Course Name	Credits	Teaching Hours	Exam Duration	Max Marks
4.5	I	500101	Environmental Science and Sustainability	2	30	2 Hours	30

Course Outcomes:

1. Explore the basic environmental concepts and issues relevant to the business and management field.
2. Recognize the interdependence between environmental processes and socio-economic dynamics.
3. Determine the role of business decisions, policies, and actions in minimizing environmental degradation.
4. Identify possible solutions to curb environmental problems caused by managerial actions.
5. Develop skills to address immediate environmental concerns through changes in business operations, policies, and decisions.

Unit	Contents	Teaching Hours
1	Understanding Environment, Natural Resources, and Sustainability Fundamental environmental concepts and their relevance to business operations; Components and segments of the environment, the man-environment relationship, and historical environmental movements. Concept of sustainability.	7
2	Classification of natural resources, issues related to their overutilization, and strategies for their conservation. Sustainable practices in managing resources, including deforestation, water conservation, energy security, and food security issues. The conservation and equitable use of resources, considering both intergenerational and intergenerational equity, and the importance of public awareness and education	8
3	Ecosystems, Biodiversity, and Sustainable Practices Various natural ecosystems, learning about their structure, functions, and ecological characteristics. Emphasizing the need for sustainable ecosystem management. The importance of biodiversity, the threats it faces, and the methods used for its conservation.	7

4	Environmental Pollution, Waste Management, and Sustainable Development Various types of environmental pollution, including air, water, noise, soil, and marine pollution, and their impacts on businesses and communities. Causes of pollution. Importance of adopting cleaner technologies; Solid waste management; Natural and man-made disasters, their management, and the role of businesses in mitigating disaster impacts.	8
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Internal Assessment: (20 Marks)

Fieldwork

- . Visit to local area to document environmental assets-river/forest/grassland/Hill/mountain
- . Visit to local polluted site-Urban/Rural/Industrial/Agricultural
- . Study of common plants, insects, birds.
- . Study of simple ecosystems-pond, river, hillslopes, etc.

Books Recommended:

Text Books (Latest Editions):

- Poonia, M.P. Environmental Studies , Khanna Book Publishing Co.
 - Environmental Science and Sustainability Mrs. Nisha Laddha and Pavan Kalantri Sai Jyoti Publication
- Bharucha, E. Textbook of Environmental Studies, Orient Blackswan Private Ltd.
- Dave, D., & Katewa, S. S. Text Book of Environmental Studies. Cengage Learning India Pvt Ltd.
- Rajagopalan, R. Environmental studies: from crisis to cure , Oxford University Press.

Model curriculum for UG Degree in BBA

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- Miller, G.T. & Spoolman S. Living in the Environment. Cengage.
- Basu, M., & Xavier Savarimuthu, S. J. Fundamentals of environmental studies. Cambridge University Press.
- Roy, M. G. Sustainable Development: Environment, Energy and Water Resources. Ane Books.
- Pritwani, Sustainability of business in the context of environmental Management. CRC Press.
- Wright, R.T. & Boorse, D.F. Environmental Science: Toward A Sustainable Future (13th ed.). Pearson.

References

Web links:

- <https://www.ourplanet.com>
- <https://www.undp.org/content/undp/en/home/sustainable-development-goals.html>
- www.myfootprint.org
- <https://www.globalchange.umich.edu/globalchange1/current/lectures/klings/ecosystem/ecosystem.html>