Lesson Plan of Ability Enhancement Compulsory Course-2 (AECC-2) in Environmental Studies Under Graduate Curriculum under Choice Based Credit System (CBCS)

Semester	2				
Subject	Environmental Studies				
Course Code	AECC-2 (Ability Enhancement Compulsory Course-2)				
Total Marks	100				
Marks distribution	50 Theory-MCQ type + 30 Project + 10 Internal Assessment + 10 Attendance [Marks obtained in this course will be taken to calculate SGPA & CGPA]				
Credit	2				
Stream of students	All students of B.A , B.Sc and B.Com (Honors , General and Major)-2 nd Semester				
Academic Year	March,2022 to A	August,2022			
Outcome of the course Tentative lesson	 The course will empower the undergraduate students by helping them: To raise awareness regarding different components of the environment, ecosystem, natural resources, biodiversity, environmental pollution, role of environmental education etc. To learn about various contemporary environmental concerns and problems at the national and worldwide levels. To disseminate information regarding various management techniques of natural and man-made disaster. 				
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Month	Unit	Chapter wise Syllabus Content	Stream	Number of Lectures for Each Stream	Name of the teacher
	1	Introduction to environmental studies •Multidisciplinary nature of environmental studies;	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	1	Ms. Paushali Guha Sarkar
March,2022		•Scope and importance; Concept of sustainability and sustainable development	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	1	Ms. Shreya Ghosh
March,2022	2	Concept of ecology and ecosystem, Structure and function of ecosystem; Energy flow in an ecosystem; food chains, food webs; Basic concept of population and community ecology; ecological succession. Characteristic features of the following:	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	2	Ms. Paushali Guha Sarkar
	a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, wetlands, rivers, oceans, estuaries	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	2	Ms. Shreya Ghosh	

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		Natural Resources Concept of Renewable and Non-renewable resources	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	1	Ms. Paushali Guha Sarkar
March,2022	3	Land resources and land use change; Land degradation, soil erosion and desertification.	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	1	Ms. Shreya Ghosh
		Natural Resources			
April,2022	3	Deforestation: Causes, consequences and remedial measures Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	2	Ms. Paushali Guha Sarkar
		•Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources, growing energy needs.	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	2	Ms. Shreya Ghosh
		Biodiversity and Conservation			
		Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	2	Ms. Paushali Guha Sarkar
April,2022	4	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;	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	2	Ms. Shreya Ghosh
April,2022	Project	Detail guidance for completion of the project namely "Assessment of noise pollution-a case study"			Ms. Paushali Guha Sarkar & Ms. Shreya Ghosh
May,2022	4	Biodiversity and Conservation •Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	1	Ms. Paushali Guha Sarkar
		•Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	1	Ms. Shreya Ghosh
	Project	Submission of the Project			Ms. Paushali Guha Sarkar & Ms. Shreya Ghosh

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May,2022	5	 Environmental Pollution Environmental pollution: concepts and types, Air, water, soil, noise and marine pollution- causes, effects and controls 	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	3	Ms. Paushali Guha Sarkar
		 Concept of hazards waste and human health risks Solid waste management: Control measures of Municipal, biomedical and e- waste 	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	3	Ms. Shreya Ghosh
June,2022	6.	Environmental Policies and Practices •Climate change, global warming, ozone layer depletion, acid rain and their impacts on human communities and agriculture •International agreements: Montreal Protocol, Kyoto protocol and climate negotiations; Convention on Biological	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	4	Ms. Paushali Guha Sarkar
		Diversity (CBD). •Protected area network, tribal populations and rights, and human wildlife conflicts in Indian context	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	4	Ms. Shreya Ghosh
	Internal Assessment	MCQ based Internal Assessment for all students of Sem-II on Unit-1 to 6	All streams		Under the supervision of Ms. Paushali Guha Sarkar & Ms. Shreya Ghosh
July,2022	7.	Human Communities and the Environment •Human population growth: Impacts on environment, human health and welfare. •Case studies on Resettlement and rehabilitation.	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	3	Ms. Paushali Guha Sarkar
		 Environmental Disaster: Natural Disasters-floods, earthquake, cyclones, tsunami and landslides; Manmade Disaster-Bhopal and Chernobyl Environmental movements: Bishnois. Chipko, Silent valley, Big dam movements. Environmental ethics: Role of gender and cultures in environmental conservation. Environmental education and public awareness 	B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	3	Ms. Shreya Ghosh

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July,2022	Discuss question and answer	B.A-H-Gr-A, B.A-G-Gr-A, B.Com-H & G	1	Ms. Paushali Guha Sarkar
		B.A-H-Gr-B, B.A-G-Gr-B, B.Sc- H & G	1	Ms. Shreya Ghosh