

University of Calcutta Under Graduate Curriculum under Choice Based Credit System (CBCS)
Lesson Plan with Syllabus for Ability Enhancement Compulsory Course-2 (AECC-2) in
Environmental Studies Sem-II
Total Marks-100(Credit -2)
(50 Theory-MCQ type + 30 Project + 10 Internal Assessment + 10Attendance)
[Marks obtained in this course will be taken to calculate SGPA & CGPA]

Tentative, may subject to change:				
Months	Week	Unit	Chapter wise Syllabus Content	No. of Lectures for Each Section
March	2nd	1.	Introduction to environmental studies: <ul style="list-style-type: none"> •Multidisciplinary nature of environmental studies; •Scope and importance; Concept of sustainability and sustainable development 	2
	3rd	2.	Ecology and Ecosystems: <ul style="list-style-type: none"> •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. 	2
	4th		<ul style="list-style-type: none"> •Characteristic features of the following: <ol style="list-style-type: none"> a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, wetlands, rivers, oceans, estuaries) <p>### Distribution of Project for Data collection: Title: Floral-diversity of West Bengal and its importance</p>	2
April	1st		McQ based Test for all 6-section on Unit-1 & 2	
	2nd	3.	Natural Resources: <ul style="list-style-type: none"> • Concept of Renewable and Non-renewable resources • Land resources and land use change; Land degradation, soil erosion and desertification. •Deforestation: Causes, consequences and remedial measures •Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). 	2
	3rd		<ul style="list-style-type: none"> •Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources, growing energy needs. 	1+1
			**Student Lecture: On Rain Water Harvesting or Waste Land Restoration	
	4th	4	<ul style="list-style-type: none"> •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. 	2
			Students' Seminar on Earth Day	22 nd April 2022
	5th	4.	<ul style="list-style-type: none"> •Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value. 	2
			McQ based Assessment for all 6-section on Unit-3	

Months	Week	Unit	Chapter wise Syllabus Content	No. of Lectures for Each Section
May	1st	5.	<p>Environmental Pollution:</p> <ul style="list-style-type: none"> • Environmental pollution: concepts and types, • Air, water, soil, noise and marine pollution- causes, effects and controls. Acid rain, Black lung, Black foot, PAN, DDT, BOD, COD, Biomagnification, Minamata 	1+1
			<p>**Student Lecture: On Deep Ecology or Conservation of Nature</p> <p>###Submission of project work start####</p>	
	2nd		<ul style="list-style-type: none"> • Concept of hazards waste and human health risks • Solid waste management: Control measures of Municipal, biomedical and e-waste. 	2
			McQ based Assessment for all 6-section on Unit-4 & 5	
	3rd	6.	<p>Environmental Policies and Practices:</p> <ul style="list-style-type: none"> •Climate change, global warming, ozone layer depletion, acid rain and their impacts on human communities and agriculture •Environment Laws: Wildlife Protection Act; Forest Conservation Act. Water (Prevention and control of Pollution) Act; Air (Prevention & Control of Pollution) Act; Environment Protection Act; Biodiversity Act. 	2
4th		<ul style="list-style-type: none"> •International agreements: Montreal Protocol, Kyoto protocol and climate negotiations; Convention on Biological Diversity (CBD). •Protected area network, tribal populations and rights, and human wildlife conflicts in Indian context 	1+1	
			**Student Lecture: On Agenda 21 or Earth Summit or Wildlife Conflict	
June	1st	7.	<p>Human Communities and the Environment:</p> <ul style="list-style-type: none"> •Human population growth: Impacts on environment, human health and welfare. •Case studies on Resettlement and rehabilitation. • Environmental Disaster: Natural Disasters-floods, earthquake, cyclones, tsunami and landslides; Man-made Disaster- Bhopal and Chernobyl. •Environmental movements: Bishnoi, Chipko, Silent valley, Narmada-Tehri Big Dam movements. •Environmental ethics: Role of gender and cultures in environmental conservation. •Environmental education and public awareness 	2
			McQ based Assessment for all 6-section on Unit-6 & 7	
	2nd	Internal Assessment	<p>McQ based Internal Assessment for all Sem-II Honours-section on Unit-1 to 7</p> <p>McQ based Internal Assessment for all Sem-II General-section on Unit-1 to 7</p>	2
	3rd	Project	Detail guidance for completion of given project	2
	4th		Submission of Project of all section	2
	5th		Submission of Project of all section	2

Section: Semester- II : Arts/Sc (H), Arts/Sc (G), Science (H), Science (G), Commerce (H), Commerce (G)