

GOUR MAHAVIDYALAYA

Department of Mathematics

ACCREDITED BY NAAC (2nd cycle) B+



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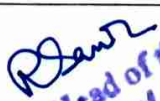
All the students of Honours Course of the Department of Mathematics take the course AEC1(Ability Enhancement Compulsory) during their Semester-I Course which contains Cross cutting issue and Professional Ethics as described below.

Cross cutting issue:

Semester	Paper	Unit	Sub-Topic	Teacher
I	AEC1	Unit 1: Introduction to Environmental Studies	Definition, Nature, Scope and Importance of Environmental studies, Multidisciplinary nature of Environmental studies, Types and Components of Environment.	Prabir Das
		Unit 2: Natural Resources: Renewable and Non-renewable Resources	<ul style="list-style-type: none">• Energy resources: Renewable and non-renewable resources, use of alternative energy sources, growing energy needs - case studies.• Water resources: Distribution of water on earth, use and over exploitation of water on earth, floods, drought, conflicts over water (international and national), Dams -- benefits and problems.• Forest Resources: Types and importance of forest resources, use and over exploitation, Deforestation and its effects. Conservation and protection of Forest, Wild life management.• Mineral resources: Types and importance of minerals	Satyajit Paul Dr. Syfujjaman Tarafder Prajesh Datta Prabir Das

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			and exploitation, effect of extraction on environment.	
		Unit 3: Ecosystem	<ul style="list-style-type: none"> • Concept of an ecosystem, structure and function of an ecosystem, different types of ecosystems: Forest, grassland, desert, aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries). Energy flow in an ecosystem, food chain, food webs and ecological pyramids, energy flow models. • Definition and classification of biomes, ecological succession, biogeochemical cycles, pattern and basic types, biogeochemical cycles of nitrogen and phosphorous. 	<p>Dr. Syfujjaman Tarafder</p> <p>Dr. Syfujjaman Tarafder</p>
		Unit 4: Biodiversity and its Conservations	<ul style="list-style-type: none"> • Definition, levels of biodiversity, genetic, species and ecosystem diversity, Biodiversity hotspot and Mega biodiversity countries: an overview, Value of biodiversity, Threats to biodiversity, Man-wildlife conflicts, Biological - invasions. • Convention of biodiversity: in-situ and ex-situ conservations, endangered and endemic species(plants and animals). • Air , water , soil and noise pollution causes and consequences •Thermal, nuclear and marine pollution causes, present status and consequences. •Solid waste management causes, effects and control of urban and industrial wastes. • Role of an individual in prevention of pollution. • Pollution: case studies. 	<p>Prajesh Datta</p> <p>Dr. Syfujjaman Tarafder</p> <p>Prajesh Datta</p> <p>Dr. Syfujjaman Tarafder</p>


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			<ul style="list-style-type: none"> • Disaster management: flood, earthquake, cyclone and landslides. 	
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Professional Ethics:

Semester	Paper	Unit	Sub-Topic	Teacher
1	AEC1	Unit 7: Human Communities and the Environment.	<ul style="list-style-type: none"> • Environmental ethics: role of religions and cultures in environmental conservations. • Environment and human health: Concept of human hygiene and different vector borne diseases. • Human rights, Value education and role of information technology in environmental communication and public awareness. 	Prajesh Datta Dr. Syfujjaman Tarafder



(Rakesh Sarkar)

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