

DEPARTMENT OF COMPUTER SCIENCE & APPLICATION

GOUR MAHAVIDYALAYA

ACCREDITED BY NAAC (2nd Cycle) B+

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All the students of the Department of Computer Application (Honours) have taken the course AEC1 (Ability Enhancement Course) during their Semester 1 which contains Cross Cutting issues and Professional Ethics as described below.

Semester	Paper	Unit	Sub-Topic	Teacher
I	AEC 1	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. 	Satyajit Paul
			<ul style="list-style-type: none"> 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. 	Dr. Syfujjaman Tarafder
			<ul style="list-style-type: none"> Forest Resources: Types and importance of forest resources, use and over exploitation, Deforestation and its effects. Conservation and protection of Forest, Wild life management. 	Prajesh Dutta
			<ul style="list-style-type: none"> Mineral resources: Types and importance of minerals, and exploration, effect of extraction on environment. 	Prabir Das
		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 air 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. 	Dr. Syfujjaman Tarafder
	<ul style="list-style-type: none"> Definition, levels of biodiversity, genetic, species and ecosystem diversity, Biodiversity hotspot and Mega biodiversity countries: an overview, Value 	Prajesh Dutta		

		Unit 4: Biodiversity and its Conservations	of biodiversity, Threats to biodiversity, Man- wildlife conflicts, Biological - invasions.	Dr. Syfujjaman Tarafder
			<ul style="list-style-type: none"> • Convention of biodiversity: in- situ and ex- situ conservations, endangered and endemic species (plants and animals). 	
			<ul style="list-style-type: none"> • Air , water , soil and noise pollution causes and consequences 	Prajesh Dutta
			<ul style="list-style-type: none"> • Thermal, nuclear and marine pollution causes, present status and consequences. 	Prajesh Dutta
			<ul style="list-style-type: none"> • Solid waste management causes, effects and control of urban and industrial wastes. • Role of an individual in prevention of pollution. • Pollution: Case studies. 	Dr. Syfujjaman Tarafder

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