

DEPARTMENT OF COMPUTER SCIENCE & APPLICATION

GOUR MAHAVIDYALAYA

ACCREDITED BY NAAC (2nd Cycle) B+

P.O. - Mangalbari, Dist.: Malda, PIN- 732142 (West Bengal)



E-mail: gmdcsa1985@gmail.com

Phone: 03512-260547

Fax: 03512-260547

All the students of the Department of Computer Science (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	• Energy resources: Renewable and non-renewable resources, use of alternative energy sources, growing energy needs. - Case studies.	Satyajit Paul
			• 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
			• 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
			• 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

Arijit Bhattacharya

HOD, Department of Computer Science,
Gour Mahavidyalaya,
Mangalbari, Malda.