



# Bajkul Milani Mahavidyalaya

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Estd.- 1964

P. O. : Kismat Bajkul • Dist. : Purba Medinipur • Pin Code No.- 721655

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All concerned teachers are requested to take class and project work of ENVS as stated below and the concerned students of 1<sup>st</sup> semester are asked to contact their respective teachers for the purpose of said class.

## VAC-1 (Environment Studies) SYLLABUS DISTRIBUTION FOR 1<sup>ST</sup> SEMESTER, 2023

Units	Value Added Course (VAC)	FULL MARKS			Name of the Teachers
		Th. (50)	L.A. & C.A (20)	Project (30)	
Unit-I: Introduction to environmental studies (2 lectures) Unit-II: Ecosystems (6 lectures)	<ul style="list-style-type: none"> <li>• Multidisciplinary nature of environmental studies; • Scope and importance; Concept of sustainability and sustainable development.</li> <li>What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem; b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)</li> </ul>	THEORY-50 MARKS			Mrs. Susmita Maity  Mr. Soumen Patra
Unit-III: Natural Resources: Renewable and Non-renewable Resources (8 lectures)	Unit-III: Natural Resources: Renewable and Non-renewable Resources (8 lectures) • Land resources and land use change; Land degradation, soil erosion and desertification; • Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Joint forest management. • Water: Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international & interstate). • Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.				Miss. Pranati Manna  Mrs. Taniya Roy
Unit-IV: Biodiversity and Conservation (8 lectures)	<ul style="list-style-type: none"> <li>• Levels of biological diversity: genetic, species and ecosystem diversity; Bio- geographic zones of India; Biodiversity patterns and global biodiversity hot spots</li> <li>• India as a mega---biodiversity nation; Endangered and endemic species of India</li> <li>• Threats to biodiversity: Habitat loss, poaching of wildlife, man--wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. • Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.</li> </ul>				Miss. Nabanita Das  Mr. Subir Pramanik
Unit-V: Environmental Pollution (8 lectures)	<ul style="list-style-type: none"> <li>• Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution</li> <li>• Nuclear hazards and human health risks</li> <li>• Solid waste management: Control measures of urban and industrial waste. • Pollution case studies. • Noise pollution.</li> </ul>				Mrs. Sikha Kar  Dr. Debasis Manna



Unit-VI: Environmental Policies & Practices ( 7 lectures)	Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture • Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD). • Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context. • Environmental policy and gender issues.		Mr. Goutam Kumar Das  Mr. Susanta Ban
Unit-VII: Human Communities and the Environment (6 lectures)	• Human population growth: Impacts on environment, human health and welfare. • Resettlement and rehabilitation of project affected persons; case studies. • Disaster management: floods, earthquake, cyclones and landslides. • Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan. • Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. • Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi).		Dr. Baikuntha Behari Josh  Mr. Suman Pahari
Unit-VIII: Field work (Equal to 5 lectures)	• Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc. • Visit to a local polluted site-- Urban/Rural/Industrial/Agricultural. • Study of common plants, insects, birds and basic principles of identification. • Study of simple ecosystems--pond, river, Delhi Ridge, etc. • Disaster management. • Coastal ecosystem	PROJECT-30 MARKS	<ul style="list-style-type: none"> <li>✓ Subrata Giri</li> <li>✓ Anjana Maity</li> <li>✓ Subhasree Sahu</li> <li>✓ Dipanjan Roy</li> <li>✓ Habibulla Mallik</li> <li>✓ Urmita Ch.Chowdhury</li> <li>✓ Sandip Kr. Jana</li> <li>✓ Piu Sasmal</li> <li>✓ Kaberi Kander</li> <li>✓ Monaj Maity</li> <li>✓ Fuldona Pandit</li> <li>✓ Debabrata Paria</li> <li>✓ Buddhadeb Debnath</li> <li>✓ Rajib Dev Goswami</li> <li>✓ Baikuntha Behari Josh</li> <li>✓ Mintu Jana</li> <li>✓ Biplab Manna</li> <li>✓ Biman Ari</li> <li>✓ Rabin Das</li> <li>✓ Atanu Das</li> <li>✓ Bapan Santra</li> <li>✓ Chandan Acharaya</li> <li>✓ Moumita Barik</li> <li>✓ Sumitra Rani Jana</li> </ul>

*Syllabus Distribution*



*Dr. Pijush Kanti Dandapath*  
14/08/23

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