

COURSE STRUCTURE-MDC-2 (SUSTAINABLE DEVELOPMENT)
Jan 2024-June 2024

Month	Unit	Topic Covered	Number of Classes	Objective		Teaching tools, References, etc.
January	UNIT I Sustainable development: idea and background	Sustainable Development: Central Theme, Scope and Nature as a Discipline, <ul style="list-style-type: none"> • Industrialization, Urbanization and threats to Sustainable Development • Economic Growth and Triple ‘P’ concept, • Brundtland Report, 1987 and Sustainable Development Idea, • Sustainable development and central capacities • UNGA (United Nations General Assembly) and SDG (Sustainable Development Goals), 2015. 	6	To nurture environmentally literate and socially responsible citizens capable of contributing to a more sustainable and equitable world.	Helps the students understand its holistic approach, become aware of interconnected human impacts, develop critical thinking and problem-solving skills, and feel empowered to address sustainability challenges.	White Board, Reference books, websites, compiled notes,
February	UNIT II Ecology And Biodiversity	<ul style="list-style-type: none"> • Ecosystem: Biotic and abiotic elements and their sustainable use, • Ecology and Sustainability: Terms and Thoughts- Food chains, Food web, Energy flow in ecosystem, Ecological niche, Habitat, Geographical range, tolerance range, Bio-geographical Regions of the world, Ecological limits, Ecological Engineering, • Levels of Environmental Awareness, Some Major Ecosystems of the World: Aquatic - Marine Terrestrial- Forests (reference to North 	6	To equip students with the knowledge and skills needed to understand, appreciate, and conserve the natural world for present and future generations.	Results in a deeper understanding of ecosystem dynamics, awareness of ecological principles and sustainability, and knowledge of major ecosystems worldwide, empowering students to appreciate and responsibly manage natural resources.	White Board, Reference books, websites, compiled notes

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		Bengal), Deserts & Grasslands.				
March	<p>UNIT III</p> <p>Biodiversity Preservation And Sustainable Development Goals</p> <p>UNIT IV</p> <p>Sustainable Development And Urbanities</p>	<ul style="list-style-type: none"> Causes of Bio Diversity Depletion and Strategies for Sustainable use of Biodiversity Endangered and Threatened Species and their sustainable conservation needs Major Biodiversity Zones of the world, Biodiversity Hot Spots Biomimetics and Sustainable Development Sustainable Development Goals in view of World-wide Biodiversity loss, Ecotourism and Sustainable Development with reference to North Bengal. Sustainable City Environment: concept Gender role in sustainable development Education for sustainable Development: Evolutionary history of Sustainable Development ideas 	8	<p>To prepare students to become informed, engaged, and proactive stewards of biodiversity and the environment, contributing to a more sustainable and resilient future for all life on Earth.</p> <p>Equips students with the tools to create livable, resilient, and sustainable cities for present and future generations.</p>	<p>Equips students with an understanding of ecosystem dynamics, awareness of ecological principles, sustainability concepts, and knowledge of major global ecosystems, fostering responsible resource management.</p> <p>Fosters understanding of sustainable city environments, awareness of gender roles in sustainable development, promotion of education for sustainable development, and knowledge of the evolution of sustainable development ideas, empowering students to contribute to a more sustainable and equitable future.</p>	<p>White Board, Reference books, websites, compiled notes,</p>
April	<p>UNIT IV</p> <p>Sustainable Development And</p>	<ul style="list-style-type: none"> Healthcare, Well-being and Sustainable Development Millennium Development Goals (MDGs) to Sustainable Development Goals (SDGs): Agenda 	8	<p>To gather relevant information about student performance or progress.</p>	<p>Empowers students to recognize the importance of addressing health and well-being within the broader framework of</p>	<p>White Board, Reference books, websites, compiled</p>

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	<p>Urbanities</p> <p>UNIT V</p> <p>Pollution And Its Impact On Sustainable Development</p>	<p>2030</p> <p>MID SEMESTER TEST</p> <ul style="list-style-type: none"> • Green Movements, Green Building, • Air pollutants, Types of particulate matter and threats to sustainability • Causes of Air, Water, Soil, and Noise pollution • Broad concepts, Concept of High Efficiency Particulate Air (HEPA) & Ultra Low Particulate Air (ULPA) Filters, 		<p>To equip students with the knowledge, skills, and motivation to become informed and proactive agents of change in addressing environmental challenges and promoting sustainable development practices.</p>	<p>sustainable development goals, fostering a more holistic approach to societal progress.</p> <p>This helps in assessing knowledge, developing skills, applying learning, receiving feedback, improving academic performance, and preparing for future careers.</p>	<p>notes</p>
<p>May</p>	<p>UNIT VI</p> <p>Sustainability & Executions</p>	<ul style="list-style-type: none"> • Utility of control equipments: gravity settling chambers, cyclone separators, wet collectors, fabric filters, venturi scrubbers, electrostatic precipitators • Desulphurization of coal and oil, Control of Nitrogen oxides by Thermal combustion, Catalytic Incineration • Stacks : Idea and meaning • Sustainability & its factors, sustainability Needs: food security and agriculture • Renewable resources - water and energy, non-renewable resources, sustainability conflicts • Clinical Economics and Development, The sustainable Development Goal Fund, 	<p>8</p>	<p>To reinforce theoretical concepts and allow students to apply sustainability principles in real-world contexts. To promote understanding of collaboration among students, educators, industry partners, and community stakeholders to address sustainability challenges collaboratively.</p>	<p>Equips students with an understanding of air pollution control equipment, desulphurization techniques, and stack concepts, alongside insights into sustainability factors, renewable and non-renewable resources, and sustainable development initiatives. This fosters awareness of environmental challenges and promotes informed decision-making towards sustainable practices and development goals.</p>	<p>White Board, Reference books, websites, compiled notes</p>

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		<ul style="list-style-type: none">Public-private partnerships for sustainable development and Private Sector Advisory Group, Sustainable development metrics				
June	U. G Semester II Examination June-2024					

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