

List and Description of Courses which Address Environment and Sustainability Issues

Course Code	Department	Title	Topic	Description	Syllabus Link
ECNHDSE602	Economics	Environmental Economics	Economic principles in environmental issues	Aims to provide tools for understanding and addressing environmental problems through an economic lens.	8
BC409T	Botany	Plant Ecology and Phytogeography	Ecosystem dynamics	Provides a comprehensive overview of how plants interact with their environment, covering various environmental factors and processes that are crucial for understanding ecological issues and conservation needs.	8
BG404T	Botany	Plant Ecology and Taxonomy	Environmental issues related to plant ecology, ecosystems, biogeography	Aims to expose students to the interaction of plant life with its surroundings, which inherently involves understanding environmental factors and issues affecting plant communities and ecosystems.	8



GECBOT1	Botany	Natural Resource Management	Sustainable utilization of natural resources	Provides knowledge on the importance, sustainable utilization, conservation, and management of natural resources, addressing critical environmental concerns in the process.	B
AE-202	FYUGP (Ability Enhancement Compulsory Course)	Environmental Science	Environmental Science	This course covers a wide range of pressing environmental issues, from local pollution concerns to global climate change, emphasizing the interconnectedness of environmental problems and the need for both local and international efforts to address them.	B
DSE-502	Chemistry	Green Chemistry	Knowledge of green chemistry	Provide students with a foundational understanding of green chemistry principles and their practical applications.	B
DSE-602	Chemistry	Industrial Chemicals and Environment	Interaction between industrial chemicals and the environment	Ensures a thorough understanding of the intersection between industrial chemical processes and environmental management, emphasizing both theoretical knowledge and practical applications.	8



SEC223	Chemistry	Basic Analytical Chemistry (Fuel Chemistry)	Petroleum Chemistry and Technology	Ensures a thorough understanding of hydrocarbon fuels, petrochemicals, and lubricants, with both theoretical knowledge and practical skills, preparing students for careers in petroleum chemistry and technology.	
SEC123	Chemistry	Basic Analytical Chemistry	Basic analytical chemistry	Provides a thorough grounding in analytical chemistry techniques, emphasizing practical applications in environmental and industrial contexts.	B
GGRM 101T4	Geography	Geomorphology and Biogeography	Theoretical knowledge and practical applications in biogeography	Provides an in-depth understanding of the spatial distribution of plants and animals and their interaction with environmental factors and human activities, emphasizing both theoretical knowledge and practical applications in biogeography.	B
GGRM 102T4	Geography	Climatology	Impact of climate change on atmospheric processes and weather patterns	Provides a comprehensive understanding of atmospheric processes, weather patterns, and climatic variations, with a focus on both theoretical knowledge and the practical implications of climatic phenomena.	8



GGRM GE101AT6	Geography	Disaster Management	Environmental impact of various natural and manmade disasters	Provides a comprehensive understanding of the different types of disasters, their causes, impacts, and distribution, with a focus on disaster management, response, and mitigation strategies, including the role of national organizations and community-based approaches.	8
GGRM GE101BT6	Geography	Geography OF Tourism	Strategies for minimizing negative environmental impacts and promoting sustainable tourism practices	Provides a comprehensive understanding of how tourism affects economic growth, environmental sustainability, and societal changes, with an emphasis on balancing benefits and minimizing negative impacts through sustainable practices.	8
GGRM 202T4	Geography	Geography of India (Theory)	Impact of agricultural practices on the environment, Sustainable mining and mineral resource management, Conservation of forests and biodiversity, Industrial pollution, and mitigation strategies	Provides a comprehensive understanding of India's physical geography, with a focus on the North East region and Assam's resources, agricultural practices, mineral wealth, forests, and industries, emphasizing both theoretical knowledge and practical implications for sustainable development.	



GGRM302T6	Geography	Regional Geography of World (Theory)	Understanding of the physical geography	Provides understanding on impact of industrial development on the environment, sustainable resource management practices and conservation of soil, vegetation, and mineral resources	8
GGRM GE301AT6	Geography	Climate Change: Vulnerability and Adaptation	Impact on ecosystems, biodiversity, and natural resources	Equips students with essential knowledge to understand, assess, and respond to the challenges posed by climate change, focusing on vulnerabilities, impacts, adaptation strategies, and global efforts towards mitigation, with a specific emphasis on the South Asian context and local governance frameworks.	8
GGRM402T6	Geography	Environmental Geography (Theory)	Identification and analysis of key environmental challenges in various biomes and strategies for sustainable development and conservation practices	Provides students with a holistic understanding of environmental geography, emphasizing the complex interactions between humans and their natural surroundings, and exploring strategies for sustainable environmental management at global, national, and local levels.	



GGRM GE401AT6	Geography	Industrial Geography	Assessment of industrial pollution, resource exploitation, and sustainable practices	Provides students with insights into how industrialization shapes geographical landscapes and communities in India, emphasizing the need for sustainable development and effective management of industrial impacts on the environment, society, and economy.	8
GGRM GE401BT6	Geography	Sustainable Development	Assessment of global and local environmental challenges and their management	Equips students with critical knowledge and skills necessary to address current and future challenges related to sustainable development, emphasizing the importance of integrating environmental, social, and economic considerations for long-term global prosperity.	
GGRM 501T4	Geography	Regional Planning and Development (Theory)	Alignment of regional development goals with global sustainable development objectives	Equips students with theoretical and practical knowledge essential for effective regional planning and development, emphasizing the integration of economic growth, social equity, and environmental sustainability in shaping regional futures.	B



GGRM DSE501AT6	Geography	Settlement Geography	Role of urban and regional planning policies in managing environmental impacts of settlements	Provide students with a comprehensive understanding of human settlements from a geographical perspective, emphasizing their relationship with the environment and the importance of sustainable development practices.	8
GGRM DSE501B T6	Geography	Resource Geography	Natural resources and their management	Equip students with the knowledge and skills necessary for understanding, managing, and conserving natural resources in a sustainable manner, considering environmental, economic, and social dimensions.	8
GGRM DSE 502AT6	Geography	Urban Geography	Environmental degradation, air and water pollution, waste management challenges, and loss of green spaces and Policies and initiatives promoting sustainable urban development, including green building practices, energy efficiency, and waste recycling programs.	Prepares students to critically examine the complex dynamics of urbanization, understand the environmental and social challenges associated with rapid urban growth, and explore sustainable development pathways for cities.	



GGRM DSE502BT6	Geography	Agricultural Geography	Environmental implications of agricultural development and identify sustainable practices for the future	Equips students with the knowledge and skills to critically evaluate agricultural landscapes, understand the interactions between agriculture and the environment, and propose sustainable solutions for agricultural development.	
GGRM601T6	Geography	Evolution of Geographical Thought (Theory)	Promoting sustainable development and environmental conservation practices	Provides a foundational understanding of the philosophical underpinnings of geography and their implications for addressing environmental challenges and shaping sustainable development practices.	<i>B</i>
GGRM DSE 601AT6	Geography	Geography of Health and Wellbeing	Environmental factors influence health outcomes	Provides a comprehensive understanding of the interconnections between environmental quality, human health, and well-being, using geographical approaches to analyse and address pressing environmental health challenges.	8
GGRM DSE 602AT6	Geography	Hydrology and Oceanography	Addresses environmental challenges affecting coral reefs and marine ecosystems	Integrates hydrological and oceanographic principles with environmental issues, providing insights into the complex interactions between natural	B



				processes, human activities, and environmental sustainability.	
GGRM DSE 602BT6	Geography	Social Geography	Urbanization affects social welfare and wellbeing, including environmental degradation, pollution, resource depletion, and urban sprawl	Provides a comprehensive understanding of social geography, emphasizing the interplay between social welfare, environmental issues, and sustainable development goals in shaping human wellbeing and urban dynamics.	B
GECGGR1A	Geography	Physical Geography	Natural processes and human activities, emphasizing environmental impacts and sustainability	Provides a comprehensive understanding of physical geography, emphasizing the Earth's dynamic processes and their interactions with environmental issues, natural hazards, and sustainable management practices.	
GECGGR1B	Geography	Human Geography	Impacts of rapid urban growth on environmental quality, environmental consequences of industrial activities, climate change and environment justice	Provides a critical exploration of human-environment interactions, emphasizing theoretical perspectives in human geography and their relevance to contemporary environmental challenges and sustainability issues.	



SEC106	Geography	Disaster Management	Hazards and disasters	Equips students with essential skills and knowledge to effectively understand, mitigate, and respond to natural and manmade disasters, emphasizing both theoretical foundations and practical field-based learning.	B
MINGGR2	Geography	Climatology and Biogeography	Knowledge of climatology and biogeography	Addresses habitat loss, climate change impacts on biodiversity, deforestation, pollution affecting ecosystems, and the role of conservation measures in mitigating environmental degradation.	B
GECGGR2B	Geography	Fundamentals of Economic Geography	Natural environmental factors influence on economic activities and development patterns across different regions	Provides insights into the intersection of economic activities with natural environmental factors, emphasizing their impact on regional development, resource management, and sustainability efforts.	B
GG1C2	Geography	Climatology	Environmental Impact of Atmospheric Changes	Explores how understanding weather, climate, and atmospheric dynamics is crucial for comprehending environmental issues such as climate change, air pollution, and ozone depletion, emphasizing their global and local	B



				impacts on ecosystems and human societies.	
GG1D1	Geography	Cultural Geography Credit	Cultural Impacts on the Environment	Provides insights into how cultural geography examines the dynamic relationships between culture, environment, and society, highlighting both the cultural diversity and environmental challenges that arise from human interactions with the natural world.	B
GG2D3	Geography	Fundamentals Of Disaster Management	Assessing the environmental repercussions of disasters and sustainable disaster management	Equips students with comprehensive knowledge and practical skills necessary to understand, mitigate, and respond effectively to various types of disasters, emphasizing both natural phenomena and humaninduced emergencies while considering their environmental implications.	
GG2G1	Geography	Environment And Development	Addressing contemporary environmental challenges	Provides a comprehensive overview of environmental geography, encompassing theoretical foundations, practical applications, and critical discussions on sustainable development and environmental management practices.	B



GG2G2	Geography	Climatology And Oceanography	Assessing the various ways human activities affect the marine environment	Provides a comprehensive understanding of the dynamics of the marine environment, focusing on both natural processes and human-induced changes, aiming to foster awareness and develop strategies for sustainable marine resource management and conservation.	
GE 2	Political Science	Human Rights Gender and Environment	Understanding the principles of environmental sustainability and sustainable development.	Addresses critical environmental and sustainability issues such as industrial pollution, global warming, threats to biodiversity, environmental policy frameworks, and the role of environmental movements in India.	
DSE03	Sociology	Environmental Sociology	Environmental issues and movements in the preview of sociology	Introduce students to the core debates of environmental sociology, different approaches within the sub-discipline and how these approaches may be used to understand environmental issues and movements in India.	B
ZOOC1	Zoology	Animal Diversity I	Animal Diversity	Provides a structured approach to understanding animal diversity, focusing on both theoretical knowledge and its application in real-world contexts.	B



SEC111	Zoology	Freshwater Aquaculture	Freshwater aquaculture under different environment conditions	Introduces freshwater aquaculture and maintenance of fish health.	B
GEZOO1	Zoology	Natural Resource Management	Sustainable natural resource management	Provides knowledge to the students on importance, sustainable utilization, conservation, and management of natural resources.	B
ZOOC2	Zoology	Animal Diversity II	Animal Diversity	Provides a structured approach to understanding animal diversity, focusing on both theoretical knowledge and its application in real-world contexts.	8
SEC212	Zoology	Aquarium Fish Keeping	Aquarium fish management	Equip students to rear fish in aquarium for entrepreneurship.	(B)
GEZOO2	Zoology	Wildlife Conservation and Management	Wildlife Conservation and Management	Provides a clear understanding of wildlife, habitats, threats, and conservation measures.	B
ZC3505T	Zoology	Diversity of Chordata	Understanding the diversity, adaptations, and distribution of chordates provides a foundation for	focuses on the diversity and classification of chordates.	8



			recognizing how environmental changes		
ZD501T	Zoology	Animal Behaviour and Chronobiology	Animal behaviour, social behaviour, and chronobiology.	Provides foundational knowledge that is valuable for addressing various ecological and conservation issues.	B
ZD504T	Zoology	Biology of Insecta	Insects and Environment	Offer a foundation for understanding various environmental issues, from biodiversity conservation to climate change impacts on insect populations and their cascading effects on ecosystems.	8
NSS01	Skill Based Courses	NSS and Youth Development	Fostering community engagement, particularly in areas of health, hygiene, and sanitation	Learns the significance of environmental conservation through community projects, promoting a cleaner and healthier ecosystem.	B
NSS02	Skill Based Courses	NSS in Social-economic Development	Environmental issues, sustainable practices, and disaster management	Equip students with the knowledge and skills to promote environmental sustainability.	B
40200	English	British Romantic Literature	William Blake, 'The Lamb'	The lamb is representative of nature as a whole and is described as tender, soft, wooly and bright.	B



40200	English	British Romantic Literature	Percy Bysshe Shelley 'Ode to the West Wind	It shows us the power of the wind which brings a change in the natural world.	8
40200	English	British Romantic Literature	John Keats 'Ode to a Nightingale	The nightingale tries to depict a series of conflict that takes place between reality and romantic ideal that is used to unite with nature.	8
60200	English	Postcolonial Literatures	Mamang Dai 'Small Towns and the River'	While the poet employs nature to imply Positivity, she looks upon the small towns as a symbol of death, since they have grown up at the cost of nature.	8



