

		National Institute of Technology Meghalaya An Institute of National Importance							CURRICULUM		
Programme		Master of Technology					Year of Regulation			2025	
Department		Civil Engineering					Semester			I	
Course Code	Course Name	Pre-requisite	Credit Structure				Marks Distribution				
			L	T	P	C	INT	MID	END	Total	
CE 549	Environmental Policy and Legislation	NIL	3	0	0	3	50	50	100	200	
Course Objectives	1. To understand the Evolution of environmental policies, legislations, and regulatory frameworks at national and international levels. 2. To analyse Key Environmental Laws in India and their implications for environmental management and sustainable development. 3. To develop Practical Knowledge about procedures like Environmental Clearance, Environmental Impact Assessment (EIA), and Compliance Requirements. 4. To foster Critical Thinking to assess the effectiveness of environmental governance instruments and suggest improvements based on case studies. 5. To evaluate International Treaties and protocols related to climate change, biodiversity conservation, and pollution control.		Course Outcomes	CO1	Able to explain and interpret major environmental laws, regulations, and constitutional provisions concerning the environment.						
				CO2	Able to critically analyze the structure and effectiveness of Indian and global environmental policies.						
				CO3	Able to apply legal and regulatory concepts in preparing environmental management plans and ensuring compliance in real-world projects.						
				CO4	Able to evaluate the significance and implications of international environmental agreements on national policies.						
				CO5	Able to recommend sustainable policy interventions based on case study analyses and current environmental governance trends.						
SYLLABUS											
No.	Content							Hours		COs	
I	Introduction to Environmental Policy: Definition, Scope, and Importance of Environmental Policies; Evolution of Environmental Policy in India; Global Environmental Governance Overview (UNEP, IPCC, UNFCCC)							5		CO1, CO2	
II	Environmental Legislations in India: Constitutional Provisions (Articles 48A and 51A); Environment (Protection) Act, 1986; Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981; Forest Conservation Act, 1980; Wildlife Protection Act, 1972; Hazardous Waste Rules and Solid Waste Management Rules.							9		CO2, CO3, CO4	
III	Environmental Clearance and EIA Process: Environmental Impact Assessment (EIA) Notification; Public Hearing Procedures; Environmental Management Plans (EMP).							5		CO2, CO3, CO4	
IV	International Environmental Agreements: Stockholm Conference, 1972; Rio Earth Summit, 1992; Kyoto Protocol; Paris Agreement (2015); Convention on Biological Diversity (CBD).							7		CO2, CO3, CO4	
V	Policy Instruments and Compliance: Command and Control Regulations; Market-based Instruments: Carbon Trading, Green Taxes; Voluntary Environmental Initiatives and CSR.							7		CO4, CO5	
VI	Emerging Trends and Case Studies: Climate Policy in India (NAPCC, SAPCCs); Urban Environmental Governance (Smart Cities Mission); Case Studies on Policy Implementation and Challenges (e.g., Ganga Action Plan, Plastic Waste Ban).							9		CO4, CO5	
Total Hours								42			
Essential Readings											
1. Divan, S. and Rosencranz, A., Environmental Law and Policy in India, Oxford University Press, 8 th eds, 2022											
2. CPCB Reports, Ministry of Environment, Forest and Climate Change (MoEF&CC) documents											
3. UNEP and IPCC reports.											
Supplementary Readings											
1. Kraft, M E., Environmental Policy and Politics, Routledge, 2021											
2. Sands, P., Principles of International Environmental Law, Cambridge University Press, 2018											