

modified syllabus (2023-2024)
School of Energy and Environmental Studies, DAVV, Indore.
PhD Entrance Exam Syllabus

Energy & Environment Scenario: World & India Energy Scenario, uses, availability and overall energy demand & supply, Commercial and noncommercial energy; utilization pattern of fossil and Renewable sources of Energy, Impact on environment due to application of fossil and Renewable sources of Energy, Fuel and Carbon Emission

Solar: Solar Angles, Day length, Angle of Incidence on Tilted Surface, Sun path Diagram, Shadow determination

Organic utilization Technology options, Potential, Process and technologies, aerobic & anaerobic bioconversion process, biogas production process

characteristics of wind power, Extractable wind power, Site selection, wind data analysis and predictions.

Hydroelectric Scheme, Mini and Micro Hydro Projects. Potential geothermal Sites, Estimations of Geothermal Power, Nature of Geothermal Sites, Basic Theory of OTEC, Potential and

Electrical & thermal Energy: Basis of Energy and its various forms: Electrical Basis-DC &

Socioeconomic aspects of energy, Use of energy and their availability and overall energy demand.

Air & Noise Pollution: Air pollution; air Quality, classification of air Pollutants, noise, classification of Noise, Noise Standards, Effects of Noise on human & environment.


of water pollution and its control, waste water treatment and disposal, waste water characteristics, Classification, sources of waste water, water quality and effluents standards.

sources of solid wastes (municipal and hazardous), properties of solid waste and technique for its management.

Impact Analysis; Environmental Impact Assessment and Environmental Impact Statement. Description of the Baseline Environment, Methodology of EIA, EIA notification September 2006 and amendments, Categorization of projects, Procedure for getting environmental clearance.

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17.7.2023

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Sustainable Development and Climate Change: Development; Sustainable Development – Logic of Sustainable Development; Methods to Achieve Sustainable Development, Factors Affecting Climate Change. Impact of climate change & its mitigation, climate Change Management, Conventions, International Organizations working on climate change, Programs and Policies Initiated for Mitigating Climate Change.



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