AMC-18 ENVIRONMENTAL ENGINEERING

UNIT-1 MAN, ENVIRONMENT, ECOSYSTEMS & THEIR INTER RELATIONSHIP

- 1.1 Introduction, Effects Of Pollutants On Living System,
- 1.2 Some Pollution Syndromes

UNIT-2 TYPES OF ENVIORONMENT POLLUTATANTS AND THEIR SOURCE OF EFFECTS

- 2.1 Natural Pollution, Agricultural Pollution, Mining Pollution, Municipal Pollution, Industrial Pollution, Classification Of Pollution And Pollutants,
- 2.2 Devising Technological Abatement Processes, Effects Of Pollutants On Living System, Fire Management, Rangelands, Parks And Nature Preserves,
- 2.3 Case Study Reintroducing Wolves To Yellowstone, World Parks And Preserves

UNIT-3. INDOOR POLLUTION, AIR POLLUTION, SOURCE & THEIR EFFECTS AND CONTROL TECHNOLOGIES

- 3.1 Introduction, Air Pollution Episodes, Air Pollution And Its Abatement, Effects Of Air Pollution, National Air Pollution Control Administration,
- 3.2 Air Pollution Control, Clean Air Legislation, Sources Of Air Pollution, Control Of Air Pollution, Types Of Gas Changing Device

UNIT-4 NOISE POLLUTION & ITS ABATEMENT

- 4.1 Introduction, Noise Pollution Sources,
- 4.2 Effect of Noise On Physical Health, Noise Control

UNIT-5 INDUSTRIAL WASTE TREATEMENT AND DISPOSAL

- 5.1 Pollution Characteristics Of Wastes, Physical Characteristics, Chemical Characteristics, Biological Characteristics, Treatment Of Industrial Effluents, Physical Treatment,
- 5.2 Chemical Treatment, Biological Treatment, Disposal Of Industrial Effluents, Treatment Of Industrial Effluents, Physical Treatment, Air Pollution Problems In Industry,
- 5.3 Nuclear Wastes, Health And Environmental Effects, Refinery And Fuel Fabrication Wastes, Biomedical Wastes, Control Of Biomedical Wastes,
- 5.4 Identifying A Hazardous Waste, Role Of The Wastes Exchange, Treatment And Disposal Of Chemical Wastes

UNIT-6 SOLID WASTE DISPOSAL

6.1 Introduction, Characteristics of Solid Wastes, Characteristics, Considerations In Solid Waste Management, Collection Systems

UNIT-7 ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING

7.1 Historical Perspective, Elements Of The Environmental Impact, Project Design And Construction, Project Operations, Site Characteristics,

- 7.2 Institutional And Sociopolitical Framework, Possible Impacts, Socioeconomic Analysis, Alternatives Availability Of Information, Availability Of Resources,
- 7.3 Environmental Pollution And Its Control In The Pulp And Paper Industry, NEPA And EIS, Introduction, Sustainable Development, Environment Impact Assessment,
- 7.4 Project Operations, Site Characteristics, Institutional And Sociopolitical Framework, Socioeconomic Analysis, Alternatives, Availability Of Information,
- 7.5 Availability Of E-sources

UNIT-8 INTRODUCTION TO ENVIORONMENTAL LAWS AND POLICIES

- 8.1 Environmental Policy, NEPA and EIS,
- 8.2 Environmental Law, International Treaties and Conventions

UNIT-9 GLOBAL ISSUES TO STITUTE OF I

- 9.1 Best Practicable Means (BPM), Devising Technological Abatement Processes, Environmental Standards, State Of World Environment, International Treaties And Conventions,
- 9.2 Dispute Resolution And Community-Based Planning, The Dilemma Of Industrialization And Urbanization

 Phartered Industrialization

Reference Books:

- 1. Environmental engineering dictionary by edited by C. C. Lee
- 2. Handbook of chemical and environmental engineering calculations by edited by Joesph P. Reynolds, John S. Jeris, and Louis Theodore
- 3. Handbook of Chemical Technology and Pollution Control by Martin B. Hocking

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