



DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

SOLID WASTE MANAGEMENT

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ FOURTH YEAR I SEMESTER ◆ CODE A80141

UNIT I:
SOLID WASTE AND THEIR HANDLING: DEFINITION OF SOLID WASTES - TYPES OF SOLID WASTES - SOURCES - INDUSTRIAL, MINING, AGRICULTURAL AND DOMESTIC - CHARACTERISTICS. SOLID WASTE PROBLEMS - IMPACT ON ENVIRONMENTAL HEALTH

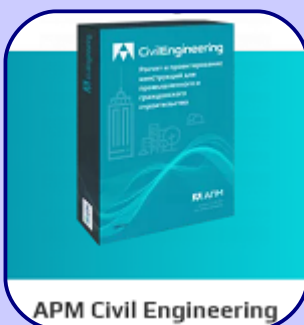
UNIT II:
COLLECTION, SEGREGATION AND TRANSPORT AND MANAGEMENT OF MUNICIPAL SOLID WASTES: HANDLING AND SEGREGATION, COLLECTION AND STORAGE OF MUNICIPAL SOLID WASTES: ANALYSIS OF COLLECTION SYSTEMS, TRANSFER STATIONS - LABELING AND HANDLING OF HAZARDOUS WASTES, SOLID WASTE PROCESSING TECHNOLOGIES, MECHANICAL AND THERMAL VOLUME REDUCTION, BIOLOGICAL AND CHEMICAL TECHNIQUES FOR ENERGY AND OTHER RESOURCE RECOVERY: COMPOSTING - TYPES, VERMICOMPOSTING, TERMIGRADATION, FERMENTATION, INCINERATION OF SOLID WASTES DISPOSAL IN LANDFILLS: SITE SELECTION, DESIGN, AND OPERATION OF SANITARY LANDFILLS: LEACHATE AND LANDFILL GAS MANAGEMENT, LANDFILL CLOSURE AND POST-CLOSURE ENVIRONMENTAL MONITORING, LANDFILL REMEDIATION, REGULATORY ASPECTS OF MUNICIPAL SOLID WASTE MANAGEMENT.

UNIT III:
HAZARDOUS WASTE AND MANAGEMENT: HAZARDOUS WASTE DEFINITION, PHYSICAL AND BIOLOGICAL ROUTES OF TRANSPORT OF HAZARDOUS SUBSTANCES - SOURCES AND CHARACTERIZATION, SAMPLING AND ANALYSIS OF HAZARDOUS WASTES - PROXIMATE ANALYSIS - SURVEY ANALYSIS - DIRECTED ANALYSIS HANDLING, COLLECTION, STORAGE AND TRANSPORT, HAZARDOUS WASTE TREATMENT TECHNOLOGIES TSDF CONCEPT - PHYSICAL, CHEMICAL AND THERMAL TREATMENT OF HAZARDOUS WASTE: SOLIDIFICATION, CHEMICAL FIXATION, ENCAPSULATION, PYROLYSIS AND INCINERATION, HAZARDOUS WASTE LAND FILLS - SITE SELECTIONS, DESIGN AND OPERATION, HW REDUCTION, RECYCLING AND REUSE, REGULATORY ASPECTS OF HWM/HWM RULES.

UNIT IV:
BIOMEDICAL WASTE MANAGEMENT: CLASSIFICATION, COLLECTION, SEGREGATION TREATMENT AND DISPOSAL, RADIOACTIVE WASTE: DEFINITION, LOW LEVEL AND HIGH LEVEL RADIOACTIVE WASTES AND THEIR MANAGEMENT, RADIATION STANDARDS.

UNIT V:
E-WASTE MANAGEMENT: WASTE CHARACTERISTICS, GENERATION, COLLECTION, TRANSPORT AND DISPOSAL, REGULATORY ASPECTS OF E WASTE, GLOBAL STRATEGY, RECYCLING.

TEXT BOOKS:
1. HAZARDOUS WASTE MANAGEMENT CHARLES A. WENTZ, SECOND EDITION 1995, MCGRAW HILL INTERNATIONAL.
2. INTEGRATED SOLID WASTE MANAGEMENT GEORGE TCHOBANGLIOUS, HILARY THEISEN & SAMMUEL A. VIGIL.
REFERENCES:
1. HAZARDOUS WASTE MANAGEMENT BY PROF. ANJANEYULU.
2. CRITERIA FOR HAZARDOUS WASTE LANDFILLS - CPCB GUIDELINES 2000.
3. STANDARD HANDBOOK OF HAZARDOUS WASTE TREATMENT AND DISPOSAL BY HARRY M. FREEMAN, MCGRAW HILL 1997.
4. MANAGEMENT OF SOLID WASTE IN DEVELOPING COUNTRIES BY FRANKFLINTOFF, WHO REGIONAL PUBLICATIONS 1976.



APM Civil Engineering

STC APM

SYLLABUS COACHING
TRAINING - 2/UNIT TRAINING
SELF - 4/UNIT ASSIGNMENT
PRESENTATION - 2/UNIT
SHOWTIME - 2/UNIT



ASCON Renga

SYLLABUS PERIOD
TRAINING - 2/2 HRS/UNIT
REMOTE - 2/2 HRS/UNIT
DURATION - SEMESTER
ONLINE/REMOTE ACCESS



ARCADIA BIM

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUNITY
CERTIFICATION

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