



DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL UNIV

INDUSTRIAL WASTE WATER TREATM

Paviath ONLINE

◆ CIVIL UNIVERSITY ◆ FOURTH YEAR I SEMESTER ◆ CODE A70I39

UNIT - I  
SOURCES OF POLLUTION - PHYSICAL, CHEMICAL, ORGANIC AND BIOLOGICAL PROPERTIES OF INDUSTRIAL WASTES - DIFFERENCES BETWEEN INDUSTRIAL AND MUNICIPAL WASTE WATERS - EFFECTS OF INDUSTRIAL EFFLUENTS ON SEWERS AND NATURAL WATER BODIES.

UNIT - II  
PRE AND PRIMARY TREATMENT - EQUALIZATION, PROPORTIONING, NEUTRALIZATION, OIL SEPARATION BY FLOATATION - WASTE REDUCTION - VOLUME REDUCTION - STRENGTH REDUCTION.

UNIT - III  
WASTE TREATMENT METHODS - NITRIFICATION AND DE-NITRIFICATION - PHOSPHOROUS REMOVAL - HEAVY METAL REMOVAL - MEMBRANE SEPARATION PROCESS - AIR STRIPPING AND ABSORPTION PROCESSES - SPECIAL TREATMENT METHODS - DISPOSAL OF TREATED WASTE WATER.

UNIT - IV  
CHARACTERISTICS AND COMPOSITION OF WASTE WATER AND MANUFACTURING PROCESSES OF INDUSTRIES LIKE SUGAR, CHARACTERISTICS AND COMPOSITION OF INDUSTRIES LIKE FOOD PROCESSING INDUSTRIES, STEEL, PETROLEUM REFINERIES.

UNIT - V  
CHARACTERISTICS AND COMPOSITION OF INDUSTRIES LIKE TEXTILES, TANNERIES, ATOMIC ENERGY PLANTS AND OTHER MINERAL PROCESSING INDUSTRIES - JOINT TREATMENT OF RAW INDUSTRIAL WASTE WATER AND DOMESTIC SEWAGE - COMMON EFFLUENT TREATMENT PLANTS (CETP) - LOCATION, DESIGN, OPERATION AND MAINTENANCE PROBLEMS - ECONOMICAL ASPECTS.

TEXT BOOKS  
1. INDUSTRIAL WASTE WATER POLLUTION CONTROL BY W. WESLEY ECKENFELDER - MCGRAW-HILL.  
2. INDUSTRIAL WASTE TREATMENT BY RAD & DATTA.



APM Civil Engineering

STC APM

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



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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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