◆ CIVIL UNIVERSITY ◆ FOURTH YEAR I SEMESTER ◆ CODE A80148

UNIT-I
SOURCES AND SITE CHARACTERIZATION: SCOPE OF GEO-ENVIRONMENTAL
ENGINEERING, VARIOUS SOURCES OF CONTAMINATIONS, NEED FOR CONTAMINATED
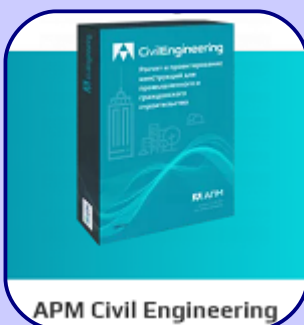SITE CHARACTERIZATION; AND CHARACTERIZATION METHODS.

UNIT-II
SOLID AND HAZARDOUS WASTE MANAGEMENT:
CLASSIFICATION OF WASTE,
CHARACTERIZATION SOLID WASTES,
ENVIRONMENTAL CONCERNS WITH WASTE,
WASTE
MANAGEMENT STRATEGIES.

UNIT-III
CONTAMINANT TRANSPORT: TRANSPORT PROCESS,
MASS-TRANSFER PROCESS,
MODELING, NAPL

UNIT-IV
REMEDIATION TECHNIQUES: OBJECTIVES OF SITE REMEDIATION, VARIOUS ACTIVE
AND PASSIVE METHODS, BIOREMEDIATION,
PHYTOREMEDIATION, REMEDIATION OF NAPL SITES.

UNIT-V
LANDFILLS: TYPES OF LANDFILLS, SITE SELECTION,
WASTE CONTAINMENT LINERS,
LEACHATE COLLECTION SYSTEM, COVER SYSTEM,
GAS COLLECTION SYSTEM.

TEXT BOOKS:
I. PHILLIP B. BEDIENT, REFAI, H. S. & NEWELL C. J. - GROUND WATER
CONTAMINATION - PRENTICE HALL PUBLICATIONS, 4TH EDITION, 2008.
2. SHARMA, H. D. AND REDDY, K. R. - GEOENVIRONMENTAL ENGINEERING,
JOHN WILEY & SONS (2004).
REFERENCES:
I. ROWE, R. K. - GEOTECHNICAL & GEOENVIRONMENTAL ENGINEERING
HANDBOOK, KLUWER ACADEMIC, 2001.
2. REDDI, L. N. AND INYANG, H. I. - GEOENVIRONMENTAL ENGINEERING
PRINCIPLES AND APPLICATIONS, MARCEL. DEKKER, INC., NEW YORK (2000).
3. LAGREGA, M. D., BUCKINGHAM, P. L. AND EVANS, J. C. - HAZARDOUS
WASTE MANAGEMENT, NEW YORK: MCGRAW-HILL, 2001.

APM Civil Engineering

Renga®

ArCADia SOFT
ArCADia BIM | ArCADia-RAMA |
INTERsoft-INTELLICAD |
EuroConnections

STC APM	ASCON RENGA	ARCADIA BIM

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

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

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUINITY
CERTIFICATION