

DEMAND

# PAVIATH INTEGRATED SOLUTION

**CIVIL ENGG** 

CIVIL UNIV

### ENVIRONMENTAL STUDIES

Paviath ONLINE

## ◆ CIVIL UNIVERSITY ◆ SECOND YEAR II SEMESTER ◆ CODE A40009

1. UNDERSTANDING THE IMPORTANCE OF ECOLOGICAL BALANCE FOR SUSTAINABLE DEVELOPMENT.

2. UNDERSTANDING THE IMPACTS OF DEVELOPMENTAL ACTIVITIES AND MITIGATION

3. UNDERSTANDING THE ENVIRONMENTAL POLICIES AND REGULATIONS

ECOSYSTEMS: DEFINITION, SCOPE AND IMPORTANCE OF ECOSYSTEM. CLASSIFICATION. Structure and function of an ecosystem, FOOD CHAINS, FOOD WEBS AND ECOLOGICAL PYRAMIDS. FLOW OF ENERGY, BIOGEOCHEMICAL CYCLES, BIOACCUMULATION, BIOMAGNIFICATION ECOSYSTEM VALUE, SERVICES AND CARRYING CAPACITY, FIELD VISITS.

ENVIRONMENTAL POLLUTION AND CONTROL TECHNOLOGIES

POLLUTION: CLASSIFICATION OF POLLUTION, AIR POLLUTION: PRIMARY

POLICIONS CONSISTENTIAL OF POLICITIAL AIR FOLIDITION PRIMARY AND SECONDARY POLILITANTS, AUTOMOBILE AND INDUSTRIAL POLILITION, AMBIENT AIR DUALITY STANDARDS. WATER POLILITION: SOURCES AND TYPES OF POLILITION, DRINKING WATER DUALITY STANDARDS. SOIL POLILITION: SOURCES AND TYPES, IMPACTS OF POLICIFICATION OF POLICIPAL PROPERTY OF THE POLICIPAL PROPERTY OF T

STANDARDS. SOIL POLLUTION SOURCES AND TYPES, IMPACTS OF MODERN ABRICULTURE. DEBRADATION DE SOIL NOISE POLLUTION-SOURCES AND TYPES, IMPACTS OF MODERN ABRICULTURE. DEBRADATION DE SOIL NOISE POLLUTION-SOURCES STANDARDS.
SOLIO WASTE, MUNICIPAL SOLIO WASTE MANAGEMENT, COMPOSITION AND CHARACTERISTICS OF E-WASTE MANAGEMENT, POLLUTION CONTROL TECHNOLOGIES: WASTEWATER TREATMENT METHODS: PRIMARY. SCEONDARY AND TERTIARY.
DEFRIVEN OF AIR POLLUTION CONTROL TECHNOLOGIES. CONCEPTS OF BIORREGIATION, GLOBAL ENVIRONMENTAL PROBLEMS AND GLOBAL EFFORTS: CLUMATE CHANGE AND IMPACTS ON HUMAN ENVIRONMENT. DZONE DEPLETION AND DESPRIFICATION. INTERNATIONAL CONVENTIONS Y PROTOCOLS: EARTH SUMMIT, KYOTO PROTOCOL. AND MONTRÉAL PROTOCOL.

PROTOCOL AND MONTRÉAL PROTOCOL

NATURAL RESOURCES: CLASSIFICATION OF RESOURCES: LIVING AND NON-LIVING RESOURCES, WATER RESOURCES: USE AND OVER UTILIZATION OF SURFACE AND GROUND WATER, FLOODS AND DROUGHTS, DAMS: BENEFITS AND PROBLEMS. MINERAL RESOURCES: USE AND EXPLOITATION ENVIRONMENTAL EFFECTS OF EXTRACTING AND USING MINERAL RESOURCES, LAND RESOURCES: FOREST RESOURCES, ENERGY RESOURCES: GROWING ENERGY NEEDS, RENEWABLE AND NON RENEWABLE ENERGY SOURCES, USE OF ALTERNATE ENERGY SOURCE, CASE STUDIES.

ENVIRONMENTAL POLICY, LEGISLATION & EIA ENVIRONMENTAL PROTECTION ACT, LEGAL ASPECTS AIR ACT- 1981, WATER ACT, FOREST ACT, WILD LIFE ACT, MUNICIPAL SOLID WASTE MANAGEMENT AND HANDLING RULES, BIOMEDICAL WASTE MANAGEMENT AND HANDLING RULES, HAZARDOUS WASTE MANAGEMENT AND HANDLING RULES. EIA: EIA STRUCTURE, METHODS of Baseline data acquisition. Overview on Impacts of Air, Water, Biological and Socio-Economical ASPECTS. STRATEGIES FOR RISK ASSESSMENT CONCEPTS OF ENVIRONMENTAL MANAGEMENT PLAN (EMP). TOWARDS SUSTAINABLE FUTURE: CONCEPT OF SUSTAINABLE DEVELOPMENT, POPULATION AND ITS EXPLOSION, CRAZY CONSUMERISM, ENVIRONMENTAL EDUCATION, URBAN SPRAWL, HUMAN HEALTH ENVIRONMENTAL ETHICS, CONCEPT OF GREEN BUILDING, ECOLOGICAL FOOT PRINT, LIFE CYCLE ASSESSMENT

(LCA), LOW CARBON LIFE STYLE

**BIODIVERSITY AND BIOTIC RESOURCES:** INTRODUCTION, DEFINITION, GENETIC, SPECIES AND ECOSYSTEM DIVERSITY. VALUE OF BIODIVERSITY; CONSUMPTIVE USE, PRODUCTIVE USE, SOCIAL, ETHICAL, AESTHETIC AND OPTIONAL VALUES. INDIA AS A MEGA DIVERSITY NATION, HOT SPOTS OF BIODIVERSITY. FIELD VISIT. THREATS TO BIODIVERSITY: HABITAT LOSS, POACHING OF WILDLIFE, MAN-WILDLIFE CONFLICTS; CONSERVATION OF BIODIVERSITY: IN-SITU AND EX-SITU CONSERVATION. NATIONAL BIODIVERSITY ACT.

I TEXTBOOK OF ENVIRONMENTAL STUDIES FOR UNDERGRADUATE COURSES BY ERACH BHARUCHA FOR UNIVERSITY GRANTS

2 ENVIRONMENTAL STUDIES BY R. RAJAGOPALAN, OXFORD UNIVERSITY PRESS.

UNIVERSITE PRESS.

I. ENVIRONMENTAL SCIENCE: TOWARDS A SUSTAINABLE FUTURE BY RICHARD T.WRIGHT. 2008 PHL LEARNING PRIVATE LTD. NEW DELHI.

Z. ENVIRONMENTAL ENGINEERING AND SCIENCE BY GILBERT M.MASTERS AND WENDELL P. ELA .2008 PHI LEARNING PVT. LTD. 3. ENVIRONMENTAL SCIENCE BY DANIEL B.BOTKIN & EDWARD

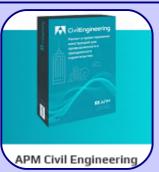
A.KELLER, WILEY INDIA EDITION 4. ENVIRONMENTAL STUDIES BY ANUBHA KAUSHIK, 4TH EDITION, NEW AGE INTERNATIONAL PUBLISHERS.

5. TEXT BOOK OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY - DR. M. ANJI REDDY 2007, BS PUBLICATIONS.

BASED ON THIS COURSE, THE ENGINEERING GRADUATE WILL UNDERSTAND / EVALUATE /

DEVELOP TECHNOLOGIES ON THE BASIS OF ECOLOGICAL PRINCIPLES

REGULATIONS WHICH INTURN HELPS IN SUSTAINABLE DEVELOPMENT



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



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**FEATURES** TRAINING BY IND. PROFESSIONAL INDUSTRY APPLICATION TRAINER OPPORTUINITY CERTIFICATION

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