

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

ENVIRONMENTAL ENGINEERING AND POLLUTION CONTROL

Paviath ONLINE

◆ CIVIL POLY ◆ III YEAR VI SEM ◆ CODE CEM62

OR. IFCTIVES

- OBJECTIVES.

 ON COMPLETION OF THE COURSE, THE STUDENT WILL BE ABLE:

 TO KNOW THE PROCEDURE OF ESTIMATING WATER REQUIREMENTS FOR A WATER SUPPLY SCHEME.
- TO SELECT SUITABLE SOURCES OF WATER SUPPLY AND PIPE MATERIALS
- TO DETERMINE THE QUALITY OF WATER, TESTING PROCEDURES AND STANDARDS FOR DRINKING WATER.
- TO UNDERSTAND THE METHODS OF PURIFICATION OF WATER.
- TO UNDERSTAND THE SYSTEMS OF DISTRIBUTION FOR A WATER SUPPLY SCHEME. TO UNDERSTAND THE BASIC FACTS OF SANITARY ENGINEERING, THE METHODS OF COLLECTION AND CONVEYANCE OF SEWAPF
- TO UNDERSTAND THE PRIMARY AND SECONDARY TREATMENT OF SEWAGE AND DISPOSAL
- TO KNOW THE METHODS OF DISPOSAL OF SLUDGE AND SOLID WASTES.
- TO IDENTIFY THE VARIOUS POLITITION AND THEIR PREVENTION.
- TO CREATE AWARENESS ABOUT ENVIRONMENTAL IMPACT ASSESSMENT.

PART I - WATER SUPPLY ENGINEERING I.I QUANTITY OF WATER

WATER SUPPLY - NEED FOR PROTECTED WATER SUPPLY
- OBJECTIVES OF PUBLIC WATER SUPPLY SYSTEM DEMAND - TYPES OF DEMAND - PER CAPITA DEMAND PREDICTION OF POPULATION - PROBLEMS IN
ARITHMETICAL INCREASE METHOD, GEOMETRICAL
INCREASE METHOD, INCREMENTAL INCREASE METHOD
- SOURCES OF WATER - SURFACE AND SUBSURFACE
SOURCES

1.2 INTAKES AND CONVEYANCE
INTAKES - TYPES OF INTAKES-DESCRIPTION OF INTAKES-INFILTRATION GALLERIES AND INFILTRATION WELLS IN
RIVER BEOS - NECESSITY OF PUMPS - TYPES OF PUMPS
- PIPES FOR CONVEYANCE OF WATER - CAST IRON,
STEEL, G.L., CEMENT CONGRETE, R.C.C., HUME AND PVC
PIPES-PIPE JOINTS - LAYING AND TESTING OF PIPE
LINES - PIPE CORROSION - CORROSION CONTROL.

3.1 SCHEDULING AND TIME MANAGEMENT
SCHEDULING-DEFINITION-PREPARATION OF
SCHEDULE-USES AND ADVANTAGES -CLASSIFICATION
OF SCHEDULES -METHODS OF SCHEDULING-BAR
CHART-JOB LAYOUT-WORK BREAK DOWN CHART(WBC)NETWORK FOR PROJECTS MANAGEMENT-ACTIVITYEVENT-DUMMIES-BASIC ASSUMPTIONS IN CREATING A
NETWORK - RULES FOR DEVELOPING NETWORKS FULCKERSON'S RULE FOR NUMBERING THE EVENTSCRITICAL PATH METHOD CRITICAL AND SUBCRITICAL
PATHS-CRITICAL AND NON CRITICAL
ACTIVITIES/EVENTS-SIGNIFICANCE OF CRITICAL PATHSIMPLE PROBLEMS-PERT - TIME ESTIMATE EST.EFT.LST.LFT-EARLIEST EXPECTEO TIME-LATEST
ALLOWABLE OCCURRENCE TIME - FLOATS -SLACK.
STANDARD DEVIATION-VARIANCE-SIMPLE PROBLEMS.

PART II - SANITARY ENGINEERING
3.1 COLLECTION AND CONVEYANCE OF SEWAGE
SANITATION - PURPOSE - TERMS - SYSTEMS OF SANITATION - OLIANITY OF SEWAGE - VARIATION IN RATE OF FLOW OF SEWAGE ESTIMATION OF STORM WATER - PROBLEMS - MINIMUM SIZE OF
SEWER - SHAPES OF SEWER - MATERIALS USED FOR SEWER - JOINTS
IN SEWER LIME - LAYING AND TESTING OF SEWER LINES - VENTILATION
OF SEWERS - CLEANING OF SEWERS.

4.1 TREATMENT AND DISPOSAL OF SEWAGE
OBJECTS OF SEWAGE TREATMENT - FLOW DIAGRAM OF SEWAGE
TREATMENT PLANTS - TREATMENT OF SEWAGE - PRIMARY AND
SECONDARY TREATMENTS - SCREEN SEMMINING FINKS - ORIT
CHAMBERS - SEDIMENTATION TANKS - FILTERS - TYPES AND
DESCRIPTION OF FILTERS - ACTIVATED SLUDGE PROCESS - SEPTIC
TANKS FOR ISOLATED BUILDINGS - CONSTRUCTION AND WORKING OF
SEPTIC TANKS - DISPOSAL OF SEPTIC TANK EFFLUENT - SOAK PITS.
DISPERSION TRENCHES - OXIDATION PONOS - SLUDGE - TYPES MEHODS OF SLUDGE DISPOSAL

PART III - POLLUTION CONTROL
5.1 ENVIRONMENTAL POLLUTION
ENVIRONMENT - DEFINITION - WATER POLLUTION SOURCES OF WATER POLLUTION - CONTROL OF WATER
POLLUTION - SOUL POLLUTION - SOURCES OF SOIL
POLLUTION - EFFECTS OF SOIL POLLUTION - CONTROL OF
SOIL POLLUTION - NOISE POLLUTION - SOURCES OF
NOISE POLLUTION - FFFECTS OF NOISE POLLUTION CONTROL OF NOISE POLLUTION - AIR POLLUTION SOURCES OF AIR POLLUTION - EFFECTS OF AIR
POLLUTION ON HUMAN BEINGS, PLANTS, ANIMALS,
MATERIALS - AIR POLLUTION CONTROL EQUIPMENT CONTROL DEVICES FOR PARTICULATE CONTAMINANTS ENVIRONMENTAL DEGRADATION - OZDINE
LAYER DEPLETION - GREEN HOUSE EFFECT - ACID RAIN.

2.1 TREATMENT OF WATER

OBJECT OF WATER TREATMENT - FLOW DIAGRAM
OF TREATMENT PLANTS - SEDIMENTATION PURPOSE - TYPES OF SEDIMENTATION COABULATION - COAGULANTS AND THEIR CHOICE
- TYPES OF SEDIMENTATION TANKS - FILTRATION
- THEORY OF FILTRATION - TYPES AND
DESCRIPTION OF FILTERS - DISINFECTION OF
WATER - METHODS - WATER SOFTENING MISCELLANEOUS WATER TREATMENT (NAMES
ONLY) - MINERAL WATER - REQUIREMENTS - R.D
PROCESS



STC APM

SYLLABUS COACHING TRAINING - 2/UNIT TRAINING SELF - 4/UNIT ASSIGNMENT PRESENTATION - 2/UNIT SHOWTIME - 2/UNIT MATHS ILLUSTRATION - GEOMETRY EXPRESSIONS



ASCON RENGA

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

CAL EXPRESSIONS – ANALYTIX CAMS

ArCADia

ArCADia BIM | ArCADia-RAMA | NTERsoft-INTELLICAD | EuroConnections

ARCADIA BIM

FEATURES
TRAINING BY IND. PROFESSIONAL
INDUSTRY APPLICATION
TRAINER OPPORTUINITY
CERTIFICATION

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