

DEMAND

PAVIATH INTEGRATED SOLUTION

CIVIL ENGG

CIVIL POLY

CONSTRUCTION MANAGEMENT WITH MIS

Paviath ONLINE

◆ CIVIL POLY ◆ III YEAR VI SEM ◆ CODE CEM61

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

 OESCRIBE THE ROLE OF GOVERNMENT AND CONSTRUCTION • DESCRIBE THE ROLE OF GOVERNMI AGENCIES IN THE FIELD OF HOUSING
- DESCRIBE THE ORGANIZATION SET UP OF PWD
- MENTION THE CONSTRUCTION ACTIVITY AND FIXING THE CONSTRUCTION AGENCY. DESCRIBE THE ASPECTS OF INSPECTION AND QUALITY CONTROL METHODS
- DESCRIBE THE BANKING SYSTEM.
- CARRYOUT THE FEASIBILITY STUDY OF A PROJECT
- THE PROCESS OF PLANNING FOR CIVIL ENGINEERING PROJECTS. EXPLAIN THE SIGNIFICANCE OF CPM AND PERT TECHNIQUES.
- UNDERSTANDS UNDERSTAND THE TYPES OF CONTRACT SYSTEM
- STUDY THE ORGANIZATION CHART OF A CONSTRUCTION COMPANY.
- UNDERSTANDS THE CONCEPTS AND REQUIREMENT OF ENTREPRENEURSHIP PERFORM THE COMPUTATION OF NET PRESENT

4.1 QUALITY MANAGEMENT AND SAFETY IMPORTANCE OF QUALITY - ELEMENTS OF QUALITY - QUALITY ASSURANCE TECHNIQUES (INSPECTION, TESTING, SAMPLING) IMPORTANCE OF SAFETY -Causes of accidents - Role of Various Parties (DESIGNER / EMPLOYER / WORKER) IN SAFETY
MANAGEMENT - BENEFITS - APPROACHES TO IMPROVE

- SAFETY IN CONSTRUCTION. 4.2 Construction disputes and their settlement
- INTRODUCTION DEVELOPMENT OF DISPUTES CATEGORIES OF DISPUTES
 Modes of Settlements Arbitration
 4.3 construction Labour and Legistation NEED FOR LEGISLATION - PAYMENT OF WAGES ACT -Factories act - contract Labour (regulation and ABOLITION) ACT - EMPLOYEES PROVIDENT FUND (EPF)

LI CONSTRUCTION SECTOR IN INDIA

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CONSTRUCTION MANAGEMENT - DEFINITION - NEED - SCOPE DBLICTIVES AND B FUNCTIONS - ROLE OF GOVERNMENT AND PRIVATE
CONSTRUCTION AGENCIES - TYPES OF CONSTRUCTION SECTORS PUBLIC AND PRIVATE FUNCTIONS OF CONSTRUCTION MANAGEMENT IN
MATIDNAL DEVELOPMENT - CONSTRUCTION PRACTICES - THE OWNER.
CONSULTANT, AND CONTRACTOR - DUTIES AND RESPONSIBILITIESVARIOUS STAGES OF A CONSTRUCTION PROJECT. VARIOUS STARES UF A LUMS ROLLINU PROJECT.

2.1 CONSTRUCTION ORGANISATIONS AND THEIR SUPERINTENDENCE
FORMS OF BUSINESS ORGANIZATIONS - SOLE PROPRIETURSHIP PARTINERSHIP - JOINT STOCK COMPANY. - CO-OPERATIVE SOCIETY.
AND STATE ENTERPRISES - ADVANTAGES AND DISADVANTAGES
- DELEGATION OF RESPONSIBILITY, PERSONNEL REQUIREMENTS AND -DELEGATION OF KESPUNSIBILITY, PERSONNEC REQUIREMENTS AND DIVISION OF WORKS - DECENTIALIZATION-CONSTRUCTION DIVISION OF WORKS - DECENTIALIZATION-CONSTRUCTION AND SUPERINTENDENCE-REQUIREMENTS AND RESPONSIBILITIES OF EXECUTIVES OF THE PROJECT - QUALITIES OF EFFICIENT CONSTRUCTION MANAGER - PAY ROLLS AND RECORDS -PURCHASE AND DELIVERY OF CONSTRUCTION MATERIALS AND EQUIPMENTS – PERCENTAGE COMPLETION REPORT - INSURANCE RECORD - PROJECT OFFICE REQUIREMENT - ORGANISATION CHAR! OF A SMALL / MEDIUM / LARGE CONSTRUCTION COMPANY (BROAD OUTLINE ONLY).

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-ACTIVITY-EVENT-DUMMIES-BASIC ASSUMPTIONS IN CREATING A NETWORK - RULES FOR DEVELOPING NETWORKS -FULCKERSON'S RULE FOR NUMBERING THE EVENTS CRITICAL PATH METHOD CRITICAL AND SUBCRITICAL PATHS-CRITICAL AND NON CRITICAL ACTIVITIES/EVENTS-SIGNIFICANCE OF CRITICAL PATH-<u>SIMPLE PROBLEMS-PERT - TIME ESTIMATE -</u> EST, EFT, LST, LFT-EARLIEST EXPECTED TIME-LATEST ALLOWABLE OCCURRENCE TIME - FLOATS -SLACK. STANDARD DEVIATION-VARIANCE- SIMPLE PROBLEMS.

TEXT BOOK:

1. SANGA REDDY. S,-CONSTRUCTION MANAGEMENTII, KUMARAN PUBLICATIONS, COIMBATORE.

2. SENGUPTA.B & H.GUHA. -CONSTRUCTION MANAGEMENT AND PLANNING, TATA MCGRAW HILL PUBLISHING COMPANY LTD., NEW DELHI

PUBLICATIONS, NAI SARAK, NEW DELHI

2. BOYD.C. & PAULSON JR. — COMPUTER APPLICATIONS IN CONSTRUCTION, TATA MCGRAW HILL PUBLISHING COMPANY LTD., NEW DELHI.

3. RANGWALA.S.C., CONSTRUCTION OF CHAROTAR PUBLISHING HOUSE, ANAND 388 OOI,

CONTROL WITH PERT AND CPM, LAXMI **PUBLICATIONS**



STC APM

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





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