SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA (LECTURE PLAN)

Subject: CONSTRUCTION MANAGEMNET, TOOLS AND TECHNIQUES (MBEM102)

Class: MBEM, I Semester

Teacher: Dr. Nagaraju Kaja Dept: Architecture Number of Hours:03 Internal Marks: 50 External Marks: 50 Total Marks: 100

Objective: To introduce the importance of Construction Management/Project Manager in the field of Construction and to impart knowledge in the related disciplines.

SL.NO	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	REMARKS
1	Week 1	Introduction ✓ Intro to Project Management, Management Functions ✓ Construction Industry, role in development ✓ Construction Team	Lecture
2	Week 2	Management Team ✓ Construction Manager-role and responsibility ✓ Causes of project failure Management styles	Lecture
3	Week 3	Assignment	
4	Week 4	Project Planning process ✓ Project Planning and development ✓ Importance of planning ✓ Feasibility Studies ✓ Project Report	Lecture
5	Week 5	Management Tools & Techniques ✓ Scheduling, Importance, advantages ✓ Methods of Scheduling: Bar Charts, Milestone Charts, Work Break down structure, Job Layout	
6	Week 6	Networks ✓ Types of Networks ✓ Rules for writing a Network ✓ Fulkerson's rule of numbering the events	Lecture
7	Week 7	Networks ✓ PERT ✓ CPM ✓ Critical Path Diff between PERT&CPM	Lecture
8	Week 8	MID TERM EXAMS	
9	Week 9	Networks ✓ PERT ✓ CPM ✓ Critical Path Diff between PERT&CPM	Lecture

SL.NO	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	REMARKS
10	Week 10	Networks ✓ PERT ✓ CPM ✓ Critical Path ✓ Diff between PERT&CPM	Lecture
11	Week 11	Project Controlling ✓ Monitoring and controlling ✓ Resource levelling & updating ✓	Lecture
12	Week 12	Site Management ✓ Site Mobilization ✓ Resource management ✓ Communicating and reporting ✓ Training for Managers/Engineers ✓	Lecture
13	Week 13	✓ INTERNAL ASSESSMENT	
14	Week 14	✓ Revision	

Tentative Break-up of Internal Assessment:

S. No.	Categories of Evaluation	Marks	Note	
1	Internal test/ Individual Assessment	15	 Marks allotted at each stage is tentative New stages or categories of evaluation may be included if and 	
2	Mid Term Exam	20		
3	Seminar Presentation	15	when the need arises	

Reference Books:

- 1. Construction Engineering and Management, S Seetharaman
- 2. Construction Project Management, Chitkara K.K
- 3. Construction Project Management, Rangwala
- 4. Construction Planning & Management, UK Srivatsava
- 5. PERT &CPM Principles and applications, LS Srinath

(Nagaraju Kaja)