

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

FRM-001/00QSP-004

TENTATIVE TEACHING PLAN

Dec.01.2001

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

Name of Teacher: **Engr. Muhammad Saleem Raza**Subject: **Construction Planning & Management (CE438)**Batch: **20CE(C)**Year: **Final** Semester: **2nd**Semester Starting Date: **15-07-2024**Semester Suspension Date: **06-11-2024**

CLO	Description	Taxonomy Level	PLO
1	APPLY the knowledge of deterministic and probabilistic models for project planning and scheduling.	C3	11
2	DISCUSS engineering contracts and procurement methods related to construction projects.	C2	11
Sr. No.	Description of Topic	CLO	No. of Lecture(s)
01	Introduction and overview of the subject	1	1
02	Construction industry, players and their roles, organizational hierarchy	1	1
03	Types of Construction Projects, Construction Economy and Civil Engineer	1	1
04	Skills and responsibilities of construction managers	1	1
05	Introduction to Information and Knowledge Management	1	1
06	Introduction to scheduling techniques, Gantt Chart, WBS	1	2
07	Critical Path Method using Activity on Arrow (A.O.A) Diagram	1	2
08	Critical Path Method using Activity on Node (A.O.N) Diagram	1	2
09	Precedence Diagram Method (PDM)	1	2
10	Project Evaluation and Review Technique (PERT)	1	3
11	Graphical Evaluation and Review Technique (GERT).	1	2
12	Determining Mean, Variance, Standard deviation, Probability and Beta Distribution, LOB method	1	2
13	Introduction to Resource Leveling and associated concepts	1	2
14	Construction Cost Control	1	1
15	Introduction to PRIMAVERA P6	1	3
16	Importance of Equipment Management in Construction	2	1
17	Developments in Construction Equipment	2	1
18	Types of Construction Equipment, modern equipment and AI applications	2	2
19	Selection of Construction Equipment & Factors influencing the productivity of equipment	2	3
20	Different types of engineering contracts, Procurement methods and their selection, Joint venturing, Public Private Partnership	2	3
21	Procurement in project life cycle, Procurement guidelines, E-procurement in construction industry.	2	3
22	Prequalification process	2	2
23	Preparation of bidding documents and NIT	2	3
24	Factors influencing contractor selection	2	2
25	Construction claims	2	1
26	Dispute resolution methods	2	1
Total Hours			48

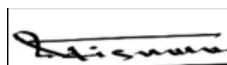
Signature of Teacher:



Dated: 10/09/2024

Remarks by DMRC: **APPROVED**

Signature of Chairman:



Dated: 18/09/2024