

# MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

FRM-001/00QSP-004

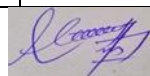
## TENTATIVE TEACHING PLAN

Dec.01.2001

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

Name of Teacher: **DR. ALI RAZA KHOSO**Subject: **Construction Planning & Management (CE436)**Batch: **19CE**Year: **Final** Semester: **2<sup>nd</sup>**Semester Starting Date: **03-07-2023**Semester Suspension Date: **20-10-2023**

CLO	Description	Taxonomy Level	PLO
1	APPLY the knowledge of deterministic and probabilistic models for project planning and scheduling.	C3	11
2	APPLY the knowledge of value engineering and construction economics for appraisal of different construction projects	C3	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	1	1
07	Work Breakdown Structure and use of software	1	1
08	Gantt Chart	1	3
09	Critical Path Method using Activity on Arrow (A.O.A) Diagram	1	3
10	Critical Path Method using Activity on Node (A.O.N) Diagram	1	3
11	Precedence Diagram Method (PDM)	1	3
12	Project Evaluation and Review Technique (PERT)	1	3
13	Graphical Evaluation and Review Technique (GERT).	1	3
14	Determining Mean, Variance, Standard deviation, Probability and Beta Distribution.	1	1
15	Introduction to Resource Leveling	1	1
16	Introduction to Various construction industry software	1	1
17	Introduction to Value Engineering and its' phases	2	1
18	Life cycle costing	2	1
19	Introduction to engineering economics	2	1
20	Economics Aspect for the Construction Industry	2	2
21	Time Value of Money	2	1
22	Project financial appraisal & Methods of economic comparison	2	2
23	Developing the cash flow diagram for the projects	2	2
24	Construction Cost Control	2	1
25	Importance of Equipment Management in Construction	2	1
26	Developments in Construction Equipment	2	1
27	Types of Construction Equipment	2	1
28	Selection of Construction Equipment & Factors influencing the productivity of equipment	2	2
29	Equipment economics	2	1
<b>Total Hours</b>			<b>48</b>



Signature of Teacher:

Dated: 20-06-2023

Remarks by DMRC: **APPROVED**

Signature of Chairman:

Dated: 01-08-2023