



SCHEDULING TECHNIQUES IN PROJECTS

PROF. J. UMA MAHESWARI

Department of Civil Engineering
IIT Delhi

TYPE OF COURSE : Rerun | Elective | UG

COURSE DURATION : 4 weeks (24 Jan'22 - 18 Feb'22)

EXAM DATE : 27 Mar 2022

INTENDED AUDIENCE : Civil Engineering Students

SUPPORTED INDUSTRIES : Any Construction Industry

COURSE OUTLINE :

This course aims to make the students well-versed with the latest scheduling techniques in construction projects. Hence, the contents are planned in such a way that any student shall be able to do the scheduling at ease starting from simple network techniques to matrix-based methods. Sufficient tutorials will be held to enable hands-on experience to the students.

ABOUT INSTRUCTOR :

Prof. J. Uma Maheswari is Associate Professor in the Department of Civil Engineering at Indian Institute of Technology Delhi. She is very active in teaching several undergraduate and postgraduate level courses in Construction Project Management at Indian Institute of Technology Delhi. She was instrumental in developing and structuring the PG Diploma program in "Metro Rail Transport: Technology & Management". She had graduated 60 MTech and 3 PhD students till date. Her passionate research topics are Design Management, Automation in Design and Construction. She was a recipient of Kusuma Outstanding Young faculty Fellowship offered at IIT Delhi for two years. Recognizing her academic contribution, Project Management Institute India has conferred on her the prestigious PMI India Young Research Scholar Award in 2015. She also received the CIDC Vishwakarma Award for Outstanding Academician category offered by Construction Industry Development Council in 2018.

COURSE PLAN :

Week 1: Introduction to scheduling Network analysis in CPM (Critical Path Method)

Week 2: PDM (Precedence Diagramming Method) analysis for overlap in activities

Week 3: BDM (Beeline Diagramming Method) network analysis for interdependent activities DSM (Dependency Structure Matrix) modeling in projects

Week 4: Evaluating/Estimating interdependent activities Other scheduling techniques in projects