

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. (CIVIL) – (Branch-49)-Construction Management

Year – I (Semester – II) (W.E.F. January 2013)

1724903: - Application of Information Technology in Construction Management

Sr. No.	Course Content
1	Introduction <ul style="list-style-type: none">• Applications of Information technology in (a) Construction Engineering (b) Management• Development of algorithm and flow chart for the conceptual framework• Fitting the requirements of construction management modules with Spreadsheet applications and implementation of advanced tools of Microsoft excel• Presentations of construction management activities with softwares at various stages of construction project• Features ,Advantages of Microsoft Project and Primavera software
2	Application of softwares <ul style="list-style-type: none">• Microsoft Excel ,Microsoft project,/Primavera,• Preparation of algorithm for the various tasks of construction management and Implementation of softwares for the IT solution

Practicals: (Based on)

1. Preparation of presentation for the assigned task.
2. Orientation of functional tools of Primavera /Microsoft Project
3. Preparation of detailed construction project with the help of software & allied tools
4. Seminar on prepared project.

References:

1. Construction scheduling with Primavera: David A. Marchman.
2. Using Microsoft Project: Tim Pyron.
3. Using Primavera 6: Planning, Executing, Monitoring and Controlling Projects , Abdelrahman Al-Saridi, Shroff Pub & Dist. Pvt. Ltd (2010)
4. MS Project 2010 Fundamentals, Munir Hamad, Shroff/Munir Hamad pub
5. Planning & Scheduling Using MS Office Project 2007 , Paul E, Bpb pub.
6. Microsoft Excel 2010 Power Programming With VBA, John Walkenbach, Wiley India Pvt Ltd (2010)
7. Microsoft Excel 2010 Formulas, John Walkenbach, Wiley India Pvt Ltd (2010)
8. Microsoft Excel 2010 Bible, John Walkenbach, Wiley India Pvt Ltd (2010)