

TCET/FRM/IP-02/09

Revision A

**Semester Plan
 (Beyond Curriculum Bridge Course)**

Semester: V Course: **T.E Civil Engineering**

Subject: **ETABS**

Class: **T.E Civil (A&B)**

Sr. No	Module No.	Lesson No.	Topics Planned (Technology to be used)	Modes of Learning	Planned /Completion Date	Resource Book Reference/ Online Courses	Remarks
1	M1	1.1	Introduction Structural Analysis and Design Softwares	Lecture, PPT	Planned 20/07/2017		
2	M1	1.2	Overview of ETABS - History and Advantages, An Integrated Approach,	Lecture, PPT,	Planned 21/07/2017		
3	M1	1.3	Modeling Features, Analysis Features,	Lecture, PPT,	Planned 27/07/2017		
3	M1	1.4	Design Features, Detailing Features	Lecture, PPT, practical	Planned 28/07/2017		
4	M1	2.1	Modeling in ETABS Concrete Building Example- Begin a New Model, Select the Base Units and Design Codes	Lecture, PPT, practical	Planned 03/08/2017		
5	M2	2.2	Set up Grid Lines, Draw Grids, Define and edit Story Levels,	Lecture, PPT, practical	Planned 04/08/2017		

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6	M2	2.3	Draw Dimension Lines, Draw Joint Objects, Save the Model	Lecture, PPT, practical	Planned 10/08/2017		
7	M2	3.1	Editing Properties Replicate, Extrude Joints to Frames, Extrude Frame to Shells,	Lecture, PPT, practical	Planned 11/08/2017		
8	M2	3.2	Merge Joints Align, Joints/Frames/Edges Move, Joints/Frames/Shells	Lecture, PPT, practical	Planned 17/08/2017		
9	M3	3.3	Edit Frames, Edit Shells, Edit the Model Geometry, View the Model	Lecture, PPT, practical	Planned 18/08/2017		
10	M3	4.1	Defining Properties- Material Properties, Section Properties, Load Patterns,	Lecture, PPT, practical	Planned 24/08/2017		
11	M4	4.2	Mass source, Load Cases, Load Combinations,	Lecture, PPT, practical	Planned 25/08/2017		
12	M4	5.1	Draw Structural Objects- Draw Beam/Column Objects, Draw Floor/Wall Objects,	Lecture, PPT, practical	Planned 31/08/2017		
13	M5	5.2	Assigning Properties- Assign-Joint, Frame, Shell, Joint,	Lecture, PPT, practical	Planned 01/09/2017		
14	M5	5.3	Assign Loads to Frame Shell, Checking the model for any errors and eliminating if any	Lecture, PPT, practical	Planned 07/09/2017		

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15	M5	6.1	Analyze the Model, Display Results for Checking,	Lecture, PPT, practical	Planned 08/09/2017		
16	M5	6.2	Checking and understanding the results and designing structural elements.	Lecture, PPT, practical	Planned 14/09/2017		
17	M6	9.1	Assignment 1-Modelling and Analysis of G+5 Story building.	Lecture, PPT, practical	Planned 15/09/2017		
18	M6	9.2	Assignment 1-Modelling and Analysis of G+5 Story building.	Lecture, PPT, practical	Planned 21/09/2017		
19	M6	10.1	Model Checking and Result Analysis	Lecture, PPT, practical	Planned 22/09/2017		
20	M6	10.2	Review and Doubt Solving	Lecture, PPT, practical	Planned 28/09/2017		

Bridge courses Objective: Bridging of gaps with respect to prerequisites and industry skills or to carryout research in that particular field. (20 Hrs / Semester / student)

S.No.	Bridge courses/Technology	Duration (Week/h rs)	Modes of Learning	Recommended Sources
1.	ETABS-Integrated Analysis, Design and Drafting of Building Systems	2 Hrs/ Week	Practice Session/ Self Learning/ Revision	CSI, ETABS
Remark	Syllabus Coverage Planned 20	Practice Session Planned 16	Beyond Syllabus Planned 01	

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No. of (lectures planned)/(lecture taken)
Planned 20

Text Books

- 1) ETABS CSI Tutorial PDF's.

Digital Reference

- 1) <https://www.csiamerica.com/products/etabs/watch-and-learn>

Name & Signature of Faculty

Signature of HOD

Signature of Principal
/Dean (Academics)

Date

Date

Date

Note

1. Plan date and completion date should be in compliance
2. Courses are required to be taught with emphasis on resource book, course file, text books, reference books, digital references etc.
3. Planning is to be done for 15 weeks where 1st week will be AOP, 2nd -13th for effective teaching and 14th -15th week for effective university examination oriented teaching, mock practice session and semester consolidation.
4. According to university syllabus where lecture of 4 hrs/per week is mentioned minimum 55 hrs and in case of 3 lectures per week minimum 45 lectures are to be engaged are required to be engaged during the semester and therefore accordingly semester planning for delivery of theory lectures shall be planned.
5. In order to improve score in NBA, faculty members are also required to focus course teaching beyond university prescribed syllabus and measuring the outcomes w.r.t learning course and programme objectives.
6. Text books and reference books are available in syllabus. Here only additional references w.r.t. non -digital/ digital sources can be written (if applicable)
7. Technology to be used in class room during lecture shall be written below the topic planned within the bracket.

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