

TCET/FRM/IP-02/09

Revision A

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

Semester VII Course **B.E. Civil Engineering**

Subject: Transportation Modelling Class B.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 to Transport System	Lecture, PPT, practical	Planned 18/07/2017	1.1	
2	M1	1.2	Travel demand modelling	Lecture, PPT, practical	Planned 19/07/2017	1.1 1.2	
3	M1	2.1	Approaches to travel demand modelling	Lecture, PPT, practical	Planned 25/07/2017	1.1 1.2	
4	M2	2.2	Trip based modelling approach	Lecture, PPT, practical	Planned 26/07/2017	1.1 1.2	
5	M2	3.1	Trip based modelling approach	Lecture, PPT, practical	Planned 01/08/2017	1.1 1.2	
6	M2	3.2	Activity based travel demand modelling	Lecture, PPT, practical	Planned 02/08/2017	1.1 1.2	
7	M2	4.1	Activity based travel demand modelling	Lecture, PPT, practical	Planned 08/08/2017	1.1 1.2 1.3	

Issued By MR

Approved By Principal

8	M2	4.2	Land use-transport models	Lecture, PPT, practical	Planned 09/08/2017	1.1 1.2 1.3	
9	M2	5.1	Land use-transport models	Lecture, PPT, practical	Planned 16/08/2017	1.1 1.2	
10	M3	5.2	Introduction to Traffic flow theory	Lecture, PPT, practical	Planned 22/08/2017	1.1 1.2	
11	M3	6.1	Introduction to Traffic flow Modelling	Lecture, PPT, practical	Planned 23/08/2017	1.1 1.2	
12	M4	6.2	Deterministic models of traffic flows	Lecture, PPT, practical	Planned 29/08/2017	1.1 1.2	
13	M4	7.1	Stochastic models of traffic flows	Lecture, PPT, practical	Planned 30/08/2017	1.1 1.2	
14	M4	7.2	Delay and saturation flow models	Lecture, PPT, practical	Planned 05/09/2017	1.1 1.2	
15	M4	8.1	Pedestrian flow modelling	Lecture, PPT, practical	Planned 06/09/2017	1.1 1.2	
16	M5	8.2	Optimization of public transport system	Lecture, PPT, practical	Planned 12/09/2017	1.1 1.2 1.3	
17	M5	9.1	Optimization Methods	Lecture, PPT, practical	Planned 13/09/2017	1.1 1.2 1.3	

Issued By MR

Approved By Principal

18	M5	9.2	Optimization Methods	Lecture, PPT, practical	Planned 19/09/2017	1.1 1.2	
19	M5	10.1	Optimization Methods (Software)	Lecture, PPT, practical	Planned 20/09/2017	1.1 1.2	
20	M5	10.2	Optimization Methods (Software)	Lecture, PPT, practical	Planned 26/09/2017	1.1 1.2	
<p>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)</p>							
S. No.	Bridge courses/Technology			Duration (Week/ hrs)	Modes of Learning	Recommended Sources	
1.	Modelling Transport			2 Hrs/ Week	Practice Session/ Self Learning/ Revision	MS Office	
Remark Course	Syllabus Coverage Planned 20			Practice Session Planned 02		Beyond Syllabus Planned 01	
<p>No. of (lectures planned)/(lecture taken) Planned 20</p>							
<p>Text Books</p> <p>1) May, A.D. Traffic Flow Fundamentals, Prentice Hall, 1990 2) Vuchic Vukan R., Urban Transit: Operations, Planning and Economics, Prentice Hall, 2005.</p> <p>Digital Reference</p> <p>1) https://www.office.com 2) Information Skill Tutorials 3) www.pluralsight.com</p>							
Issued By MR				Approved By Principal			



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 incase 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.

Issued By MR

Approved By Principal