PG – Curriculum Structure (Transportation Engg.)

1st Semester

Sr. No.	Course Code	Course Name	LTP	Credits
1	CEN521	Program Core-I (Geometric Design of Transportation Infrastructure)	3-0-0	3
2	CEN522	Program Core-II (Advanced Traffic Engineering)	3-0-0	3
3	CEN599	Open Core-I (Numerical Methods and Optimization Techniques)	3-0-0	3
4		Program Elective-I	3-0-0	3
5		Program Elective-II	3-0-0	3
6	CEN 523P	Program Lab-I (Traffic Engineering Laboratory)	0-0-3	2
		Total		**17**

2nd Semester

Sr. No.	Course Code	Course Name	LTP	Credits
1	ENN505	Open Core-II (Design of Experiments and Research Methodology)	3-0-0	3
2	CEN524	Program Core-III (Construction Project Management and BOT System)	3-0-0	3
3	CEN525	Program Core-IV (Transportation System Planning and Management)	3-0-0	3
4		Program Elective-III	3-0-0	3
5		Open Elective*	3-0-0	3
6	CEN526P	Program Lab-II** (Pavement Materials and Evaluation Laboratory)	0-0-3	2
		Total		**17**

*It could be intra/inter department course.
**To include minimum of 2 industrial visits of half day duration to nearby industries.

3rd Semester

Sr. No.	Course Code	Course Name	LTP	Credits
1	CEN601	Case Histories and Industry Experiences*	0-0-2	1
2	CEN602	Seminar and Technical Writing	0-0-2	1
3	CEN698	Project/Industry based Project-I	0-0-24	12
		Total		**14**

*To include 4 to 5 Invited lectures by industrial experts.

4th Semester

Sr. No.	Course Code	Course Name	LTP	Credits
1	CEN699	Project/Industry based Project-II	0-0-36	18
		Total		**18**

List of Department Electives I, II, III

Program Elective-I (Any One)

Sr. No.	Course Code	Course Name	L T P	Credits

1	CEN528	Land use and Regional Transportation Planning	3-0-0	3
2	CEN529	Transportation Economics and Finance	3-0-0	3
3	CEN532	Intelligent Transportation Systems	3-0-0	3
4	CEN533	Airport Infrastructure, Planning and Design	3-0-0	3
5	CEN538	Highway Materials, Design and Construction	3-0-0	3
		Total		**03**

Program Elective-II (Any One)

Sr. No.	Course Code	Course Name	L T P	Credits
1	CEN527	Pavement Management System	3-0-0	3
2	CEN531	Mass Transportation Systems	3-0-0	3
3	CEN534	Advanced Soil Engineering	3-0-0	3
4	CEN535	Advanced Engineering Geology	3-0-0	3
		Total		**03**

Program Elective-III (Any One)

Sr. No.	Course Code	Course Name	L T P	Credits
1	CEN 536	Pavement analysis and design	3-0-0	3
2	CEN 537	Railway Infrastructure, Planning and Design	3-0-0	3
3	CEN 530	Transportation and Environment	3-0-0	3
4	CEN 510	Bridge Engineering	3-0-0	3
5	CEN 514	Advanced Foundation Engineering	3-0-0	3
		Total		**03**
		Program Elective Total	**9-0-0**	**09**

List of Open Electives to be offered to other students

Sr. No.	Course Code	Course Name	L T P	Credits
1	CEN 530	Transportation and Environment	3-0-0	3
		Total		**03**

Total Credits: 17+17+14+18 = 66