

PG-Curriculum Structure (Structural Engg.)

1st Semester

S.No	Course Code	Subject	L	T	P	Credits
1	CEN 501	Advanced Reinforced Concrete Structures	3	0	0	3
2	CEN 502	Structural Dynamics	3	0	0	3
3	CEN 599	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 519P	Structural Engineering Lab-I	0	0	3	2
			Total			17

2nd Semester

S.No	Course Code	Subject	L	T	P	Credits
1	CEN 503	Advanced Steel Structures	3	0	0	3
2	CEN 504	Advanced Structural Analysis	3	0	0	3
3	ENN 505	Design of Experiments & Research Methodology	3	0	0	3
4		Program Elective-III	3	0	0	3
5		Open Elective*	3	0	0	3
6	CEN 520P	Structural Engineering Lab-II **	0	0	3	2
			Total			17

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

3rd Semester

S.No	Course Code	Subject	L	T	P	Credits
1.	CEN 601	Case Histories and Industry Experiences *	0	0	2	1
2.	CEN 602	Seminar and Technical Writing	0	0	2	1
3.	CEN 698	Thesis/ Industry Based Project-I	0	0	24	12
			Total			14

* to include 4-5 invited lectures from Industry Experts

4th Semester

S.No	Course Code	Subject	L	T	P	Credits
1	CEN 699	Thesis/ Industry Based Project-II	0	0	36	18

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

List of Electives

Program Elective-I (Any One)

Course Code	Course Name	L T P	Credits
CEN 505	Pre-stressed Concrete Structures.	3-0-0	3
CEN 509	Advanced Concrete Technology	3-0-0	3
CEN 511	Computer Aided Design and Expert Systems in Engineering.	3-0-0	3
CEN 512	Liquid Retaining Structures.	3-0-0	3
CEN 517	Advanced Solid Mechanics	3-0-0	3
Total			03

Program Elective-II (Any One)

Course Code	Course Name	L T P	Credits
CEN 506	High Rise Buildings.	3-0-0	3
CEN 513	Rehabilitation of Structures	3-0-0	3
CEN 515	Wind Engineering.	3-0-0	3
CEN 516	Construction Engineering.	3-0-0	3
CEN 534	Advanced Soil Engineering.	3-0-0	3
Total			03

Program Elective-III (Any One)

Course Code	Course Name	L T P	Credits
CEN 507	Seismic Design of Structures	3-0-0	3
CEN 508	Plated & Shell structures.	3-0-0	3
CEN 510	Bridge Engineering	3-0-0	3
CEN 514	Advanced Foundation Engineering	3-0-0	3
Total			03
Program Elective Total		9-0-0	09

Open Elective

Course Code	Course Name	L T P	Credits
CEN 507	Seismic Design of Structures	3-0-0	3
Total			03