



SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF ENGINEERING & TECHNOLOGY

CIVIL ENGINEERING

Syllabus for

**M.E. (Civil-Structures) Semester III and IV
w.e.f. Academic Year 2014-15**





SOLAPUR UNIVERSITY, SOLAPUR
FACULTY OF ENGINEERING & TECHNOLOGY

STRUCTURE OF M.E. (CIVIL-STRUCTURES)
With Effect from Academic Year 2014-15

Four Semester Course

Semester-I

Sr. No	Subject	Teaching/week				Examination Scheme				Credits			
		L	Pr	Tu	Total	TH	T	OE	Total marks	TH	TW	OE	Total
1	Theory of Elasticity & Plasticity	3	--	1	4	100	25	-	125	3	1	-	4
2	Mechanics of	3	-	1	4	100	25	-	125	3	1	-	4
3	Advanced Design of Concrete Structures	3	-	1	4	100	25	-	125	3	1	-	4
4	Dynamics Structures	3	-	1	4	100	25	-	125	3	1	-	4
5	Elective-I	3	-	1	4	100	25	-	125	3	1	-	4
6	Seminar-I	-	-	1	1	-	50	-	50	-	2	-	2
		15	-	6	21	500	175	-	675	15	7	-	22

Abbreviations: L: Lectures, Pr: Practical, Tu: Tutorial, TH: Theory, TW: Term Work, OE: Oral Exam.

Elective-I: (1) Design of Foundation

(2) Advances in Concrete Composites

(3) Structural Optimization



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Semester-II

Sr. No	Subject	Teaching/week				Examination Scheme				Credits			
		L	Pr	Tu	Total	TH	TW	OE	Total marks	TH	TW	OE	Total
7	Theory of Plates & Shells	3	-	1	4	100	25	-	125	3	1	-	4
8	Finite Element Method	3	-	1	4	100	25	-	125	3	1	-	4
9	Earthquake Engineering	3	-	1	4	100	25	-	125	3	1	-	4
10	Advanced Design of Steel Structures	3	-	1	4	100	25	-	125	3	1	-	4
11	Elective-II	3	-	1	4	100	25	-	125	3	1	-	4
12	Seminar-II	-	-	1	1	-	50	-	50	-	2	-	2
		15		6	21	500	175		675	15	7	-	22

Abbreviations: L: Lectures, Pr: Practical, Tu: Tutorial, TH: Theory, TW: Term Work, OE: Oral Exam.

Elective II:

- (1) Stability of structures
- (2) Design of R. C. C. Bridges
- (3) Structural reliability
- (4) Design of folded plates and shells



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Semester-III

Sr. No.	Subject	Teaching Scheme				Credits			
		L	T	P	Total	Credits (L)	Credits (T)	Credits (P)	Total Credits
1	Lab Practice	-	-	1*	1*	-	-	1.0	1.0
2	Dissertation Phase I : Synopsis Submission Seminar* (ISE)	-	-	3*	3*	-	-	3.0	3.0
3	Dissertation Phase II : Term Work*(ISE)	-	-	-	-	-	-	3.0	3.0
4	Dissertation Phase II Progress Seminar* (ESE)	-	-	-	-	-	-	6.0	6.0
Total		-	-	4*	4*	-	-	13.0	13.0

Note –

- *** Indicates contact hours per candidate**
- For all activities related to dissertation Phase I (synopsis submission seminar and progress seminar) student must interact regularly every week with the advisor.
- Synopsis submission seminar shall cover detailed synopsis of the proposed work. Student shall submit Synopsis of the Dissertation Work only after delivering this seminar.
- Progress seminar shall be delivered capturing details of the work done by student for dissertation
- Student shall deliver all seminars using modern presentation tools. A hard copy of the report shall be submitted to the Department before delivering the seminar. A PDF copy of the report must be submitted to the advisor along with other details if any.
- **Lab Practice** shall include any of the below activities as recommended by Advisor and student shall submit a report after completion of the activity to Advisor– Software / hardware assignments, learning new software, literature survey, filed work, industrial training etc. related to dissertation work
- Details of modes of assessment of seminar and dissertation shall be as specified in 7(III) of PG Engineering Ordinance of Solapur University, Solapur



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Semester-IV

Sr. No.	Subject	Teaching Scheme				Credits			
		L	T	P	Total	Credits (L)	Credits (T)	Credits (P)	Total Credits
1	Dissertation Phase III : Progress Seminar# (ISE)	-	-	5*	5*	-	-	4.0	4.0
2	Dissertation Phase IV: Term Work #(ISE)	-	-	-	-	-	-	6.0	6.0
3	Final Submission of the Dissertation and Viva –Voce (ESE)	-	-	-	-	-	-	6.0	6.0
Total		-	-	5*	5*	-	-	16.0	16.0

Note –

- *** Indicates contact hours per candidate**
- #- For all activities related to dissertation Phase II student must interact regularly every week with the advisor.
- Progress seminar shall be delivered capturing details of the work done by student for dissertation
- Student shall deliver all seminars using modern presentation tools. A hard copy of the report shall be submitted to the Department before delivering the seminar. A PDF copy of the report must be submitted to the advisor along with other details if any.
- Student must submit a hard copy of Project Report to the department
- Details of modes of assessment of seminar and dissertation shall be as specified in 7(III) of PG Engineering Ordinance of Solapur University, Solapur