



SOLAPUR UNIVERSITY, SOLAPUR
FACULTY OF ENGINEERING & TECHNOLOGY

Structure of M.E.-Mechanical (Design Engineering) Part-II W.E.F 2016-17

SEM- III

Sr No.	Course	Teaching Scheme			Examination Scheme				Total Marks
		L	P	Credits	AM	Theory	ICA	Oral (ESE)	
1.	Mini Project	--	--	2	ISE	--	50	25	75
2	Lab Practice	--	2	2	ISE	--	50	--	50
3	Dissertation Phase I Synopsis Submission Seminar	--	4	3	ISE	--	75	--	75
	Dissertation Phase II Term work	--	--	6	ISE	--	200	--	200
	Dissertation Phase II Progress Seminar presentation	--	--	3	ESE	--	100	--	100
Total		--	6	16		--	--	--	500

SEM- IV

Sr No.	Course	Teaching Scheme			Examination Scheme				Total Marks
		L	P	Credits	AM	Theory	ICA	Oral	
1	Dissertation Phase III Progress Seminar Presentation & Report	--	4	4	ISE	--	100	--	100
2	Dissertation Phase IV Term work	--	2	6	ISE	--	200	--	200
3	Final Presentation & Viva-voce	--	--	6	ESE	--	--	200	200
Total		--	6	16		--	300	200	500

Mini Project is to be completed in the vacation after Sem-II Examination.

- **Lab Practice:** Students are expected to learn the contemporary tools/software used in industries. It is desirable to use such software for their dissertation purpose. They should learn these with self learning approach. They are supposed to complete 5 assignments based on these tools/ software learnt and report progress to concerned guide weekly.
- **Dissertation Phase I Synopsis submission Seminar (ISE):** This presentation is to be evaluated by the panel of three PG teachers headed by guide at college level.



**SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-III**

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: MINI PROJECT

Teaching Scheme: Not Applicable

Practical: Not Applicable

Examination Scheme:

ICA: 50 marks

ESE- Oral : 25 Marks

A Mini Project based on the subjects studied during **Semester-I** and **Semester-II**, shall be undertaken and completed by the candidate during vacation after **Semester-II examination**. The report of this project shall be submitted at the beginning of Semester-III. It will be approved by the guide and endorsed by the Head of Department. It will be assessed as ISE in Semester-III, by the evaluation committee appointed by the Head of the Department.



**SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-III**

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Dissertation Phase I- Synopsis Submission Seminar

Teaching Scheme-Not Applicable

Examination Scheme

Practical: 4 hours a week

ISE: 25 Marks

ICA : 75 Marks

The synopsis shall include the problem definition, literature survey, and approaches for handling the problem, finalizing the methodology for the dissertation work and design calculations / experimental design etc., resources used, references for the literature survey, Cost estimation and sponsorship letter if any.

Students have to present the seminar based on this synopsis in front of a redressal committee of 3 persons.

The Principal shall appoint this redressal committee comprising of the Guide and two experts to review and approve the synopses before submitting them to the University for approval. This committee shall evaluate work (ISE) and submit the one page report of the suggestions/modifications in the synopsis. The candidates shall submit the synopsis to the University authorities for approval in before the due date.

The reports to be submitted to the university shall be in 8 copies. (1 Copy: Candidate, 1 Copy: Guide, 6 Copies: University)



**SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-III**

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Dissertation Phase II-Term Work

Teaching Scheme-Not Applicable

Examination Scheme

Practical: Not Applicable

ICA: 200 Marks

The term work under this submitted by the student shall include.

- 1) Work diary maintained by the student and countersigned by his guide.
- 2) The content of work diary shall reflect the efforts taken by candidates for
 - (a) Searching the suitable project work.
 - (b) Visits to different factories or organizations.
 - (c) Brief report on web sites, journals and various papers referred for project work.
 - (d) The brief report of feasibility studies carried to come to final conclusion.
 - (e) Rough sketches.
 - (f) Design calculations etc. carried by the student.



ME PART-II, SEM-III

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Dissertation Phase II-Progress Seminar Presentation

Teaching Scheme-Not Applicable

Examination Scheme

Practical: Not Applicable

ICA: 100 Marks

The student has to make a presentation of the preliminary work prescribed the syllabus in front of panel of experts in addition to guide as appointed by head of department.



SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-IV

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Dissertation Phase III Progress Seminar Presentation & Report

Teaching Scheme-Not Applicable

Examination Scheme

Practical: Not Applicable

ICA: 100 Marks

The student has to make a presentation of the progress work (analysis/experimental work/testing/validation) in front of panel of 2 experts in addition to guide as appointed by head of department.



SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-IV

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Dissertation Phase IV Term work

Teaching Scheme-Not Applicable

Examination Scheme

Practical: 2 Hrs/Week

ICA: 200 Marks

Preparation of Dissertation Report: The dissertation to be submitted by the student on topic already approved by university authorities on the basis of synopsis shall be according to the following guide lines.

Format of dissertation report:

The dissertation work report shall be typed on A4 size bond paper. The total No. of minimum pages shall not be less than 60. Figures, graphs, annexure etc. should be added as per the requirement.

The report should be written in the format as given below-

1. Title sheet
2. Certificate
3. Acknowledgement
4. List of figures, Photographs/Graphs/Tables
5. Abbreviations.
6. Abstract
7. Contents.
8. Text with usual scheme of chapters.
9. Discussion of the results and conclusions
10. Bibliography (the source of illustrative matter be acknowledged clearly at appropriate place as per IEEE/ASME/Elsevier Format).

Annexure: May contain photographs, paper presented in the conference/journals on the dissertation topic

The reports to be submitted to the university shall be hard bound (6 copies).



**SOLAPUR UNIVERSITY, SOLAPUR
ME PART-II, SEM-IV**

M.E.-Mechanical (Design Engineering) Syllabus W.E.F 2016-17

Course: Final Presentation and Viva Voce

Teaching Scheme-Not Applicable

Examination Scheme

Practical: Not Applicable

ESE: 200 Marks

Final viva voce (ESE) is to be conducted by the examiner panel appointed by the university. Student has to give a presentation comprising of the dissertation work.