

Savitribai Phule Pune University

Faculty of Science & Technology



Curriculum/Syllabus
For
Third Year
Bachelor of Engineering
(Choice Based Credit System)
Mechanical Engineering
(2019 Course)

Board of Studies – Mechanical and Automobile Engineering
(With Effect from Academic Year 2021-22)

Savitribai Phule Pune University
Board of Studies - Automobile and Mechanical Engineering
Undergraduate Program - Mechanical Engineering (2019 pattern)

Course Code	Course Name	Teaching Scheme (Hrs./week)			Examination Scheme and Marks					Credit															
		TH	PR	TUT	ISE	ESE	TW	PR	OR	Total	TH	PR	TUT	Total											
Semester-V																									
302041	Numerical & Statistical Methods	3	-	1	30	70	25	-	-	125	3	-	1	4											
302042	Heat & Mass Transfer	3	2	-	30	70	-	50	-	150	3	1	-	4											
302043	Design of Machine Elements	3	2	-	30	70	-	-	25	125	3	1	-	4											
302044	Mechatronics	3	2	-	30	70	-	-	25	125	3	1	-	4											
302045	Elective I	3	-	-	30	70	-	-	-	100	3	-	-	3											
302046	Digital Manufacturing Laboratory	-	2	-	-	-	50	-	-	50	-	1	-	1											
302047	Skill Development	-	2	-	-	-	25	-	-	25	-	1	-	1											
302048	Audit course - V\$	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Total	15	10	1	150	350	100	50	50	700	15	5	1	21											
Semester-VI																									
302049	Artificial Intelligence &Machine Learning	3	2	-	30	70	-	-	25	125	3	1	-	4											
302050	Computer Aided Engineering	3	2	-	30	70	-	50	-	150	3	1	-	4											
302051	Design of Transmission Systems	3	2	-	30	70	-	-	25	125	3	1	-	4											
302052	Elective II	3	-	-	30	70	-	-	-	100	3	-	-	3											
302053	Measurement Laboratory	-	2	-	-	-	50	-	-	50	-	1	-	1											
302054	Fluid Power &Control Laboratory	-	2	-	-	-	50	-	-	50	-	1	-	1											
302055	Internship/Mini project *	-	4	-	-	-	100	-	-	100	-	4	-	4											
302056	Audit course - VI\$	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Total	12	14	-	120	280	200	50	50	700	12	9	-	21											
Elective-I							Elective-II																		
302045-A	Advanced Forming & Joining Processes	<u>302052-A</u>			Composite Materials																				
302045-B	Machining Science & Technology	<u>302052-B</u>			Surface Engineering																				
Abbreviations: TH: Theory, PR: Practical, TUT: Tutorial, ISE: In-Semester Exam, ESE: End-Semester Exam, TW: Term Work, OR: Oral																									
Note: Interested students of TE (Automobile Engineering and Mechanical Engineering) can opt for any one of the audit course from the list of audit courses prescribed by BOS (Automobile and Mechanical Engineering)																									
Instructions: <ul style="list-style-type: none"> Practical/Tutorial must be conducted in FOUR batches per division only. Minimum number of Experiments/Assignments in PR/Tutorial shall be carried out as mentioned in the syllabi of respective courses. Assessment of tutorial work has to be carried out similar to term-work. The Grade cum marks for Tutorial and Term-work shall be awarded on the basis of continuous evaluation. \$ Audit course is mandatory but non-credit course. Examination has to be conducted at the end of Semesters for award of grade at institute level. Grade awarded for audit course shall not be calculated for grade point & CGPA. 																									