

**Savitribai Phule Pune University**  
**Board of Studies - Automobile and Mechanical Engineering**  
**Undergraduate Program – Automation & Robotics Engineering (2019 pattern)**

Course Code	Course Name	Teaching Scheme (Hours/Week)			Examination Scheme and Marks						Credit			
		TH	PR	TUT	ISE	ESE	TW	PR	OR	TOTAL	TH	PR	TUT	TOTAL
Semester-III														
<a href="#">202041</a>	Solid Mechanics	4	2	-	30	70	-	50	-	150	4	1	-	5
<a href="#">202042</a>	Solid Modeling and Drafting	3	2	-	30	70	-	50	-	150	3	1	-	4
<a href="#">202044</a>	Engineering Materials and Metallurgy	3	2	-	30	70	25	-	-	125	3	1	-	4
<a href="#">202521</a>	Electrical Technology	3	2	-	30	70	-	-	25	125	3	1	-	4
<a href="#">202522</a>	Industrial Electronics	3	2	-	30	70	25	-	-	125	3	1	-	4
<a href="#">202045</a>	Geometric Dimensioning and Tolerancing Lab	-	2	-	-	-	25	-	-	25	-	1	-	1
<a href="#">202046</a>	Audit Course - III	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	16	12	-	150	350	75	100	25	700	16	6	-	22
Semester-IV														
<a href="#">207002</a>	Engineering Mathematics - III	3	-	1	30	70	25	-	-	125	3	-	1	4
<a href="#">202047</a>	Kinematics of Machinery	3	2	-	30	70	-	-	25	125	3	1	-	4
<a href="#">202523</a>	Fluid & Thermal Engineering	3	2	-	30	70	-	25	-	125	3	1	-	4
<a href="#">202524</a>	Principles of Robotics	3	2	-	30	70	-	25	-	125	3	1	-	4
<a href="#">202050</a>	Manufacturing Processes	3	-	-	30	70	-	-	-	100	3	-	-	3
<a href="#">202051</a>	Machine Shop	-	2	-	-	-	50	-	-	50	-	1	-	1
<a href="#">202052</a>	Project Based Learning - II	-	4	-	-	-	50	-	-	50	-	2	-	2
<a href="#">202053</a>	Audit Course - IV	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	15	12	1	150	350	125	50	25	700	15	6	1	22
Abbreviations: TH: Theory, PR: Practical, TUT: Tutorial, ISE: In-Semester Exam, ESE: End-Semester Exam, TW: Term Work, OR: Oral														
Note: Interested students of SE (Automation & Robotics Engineering) can opt for any one of the audit course from the list of audit courses prescribed by BoS (Mechanical and Automobile Engineering)														
Instructions														
<ul style="list-style-type: none"><li>Practical/Tutorial must be conducted in three batches per division only.</li><li>Minimum number of required Experiments/Assignments in PR/ Tutorial shall be carried out as mentioned in the syllabi of respective subjects.</li><li>Assessment of tutorial work has to be carried out as a term-work examination. Term-work Examination at second year of engineering course shall be internal continuous assessment only.</li><li>Project based learning (PBL) requires continuous mentoring by faculty throughout the semester for successful completion of the tasks selected by the students per batch. While assigning the teaching workload of 2 Hrs/week/batch needs to be considered for the faculty involved. The Batch needs to be divided into sub-groups of 5 to 6 students. Assignments / activities / models/ projects etc. under project based learning is carried throughout semester and Credit for PBL has to be awarded on the basis of internal continuous assessment and evaluation at the end of semester.</li><li>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 &amp; CGPA.</li></ul>														