

**Savitribai Phule Pune University**  
**Faculty of Science & Technology**



**B.E. (Electronics & Telecommunication)**  
**(2015 Pattern) Syllabus**  
**(With effect from Academic Year 2018-19)**

**Savitribai PhulePune University**  
**Final Year E&TC Engineering (2015 Course)**  
(With effect from Academic Year 2018-19)

Semester I													
Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credits		
		Theor y	Tut	Pract	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR	
404181	VLSI Design& Technology	3	--	--	30	70	--	--	--	100	3	--	
404182	Computer Networks & Security	4	--	--	30	70	--	--	--	100	4	--	
404183	Radiation & Microwave Techniques	3	--	--	30	70	--	--	--	100	3	--	
404184	Elective I	3	--	--	30	70	--	--	--	100	3	--	
404185	Elective II	3			30	70	--	--	--	100	3	--	
404186	Lab Practice -I (CNS+ RMT)	--	--	4	--	--	50	--	50	100	--	2	
404187	Lab Practice -II ( VLSI + Elective I)	--	--	4	--	--	50	50		100	--	2	
404188	Project Stage I	-	2	--	--	--	-	--	50	50	--	2	
	<b>Audit Course 5</b>	--	--	--	--	--	--	--	--	--	----		
<b>Total</b>		16	2	8	150	350	100	50	100	750	16	6	
<b>Total Credits</b>											<b>22</b>		
<b><u>Elective I</u></b> 1. Digital Image and Video Processing 2. Industrial Drives and Control 3. Embedded Systems & RTOS 4. Internet of Things				<b><u>Elective II</u></b> 1. Wavelets 2. Electronics Product Design 3. Optimization Techniques 4. Artificial Intelligence 5. Electronics in agriculture				<b><u>Audit Course 5</u></b> 1. Green Energy 2. Human Behaviour					

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Semester II												
Course Code	Course	Teaching Scheme			Semester Examination Scheme of						Credit	
		Hours / Week			Marks						TH/TW	PR+OR
		Theory	Tut	Pract	In-Sem	End-Sem	TW	PR	OR	Total		
404189	Mobile Communication	3	--	--	30	70	--	--	--	100	3	--
404190	Broadband Communication Systems	4	--	--	30	70	--	--	--	100	4	--
404191	Elective III	3	--	--	30	70	--	--	--	100	3	--
404192	Elective IV	3	--	--	30	70	--	--	--	100	3	--
404193	Lab Practice –III (MC+BCS)	--	--	4	--	--	50	50	--	100	--	2
404194	Lab Practice –IV ( Elective III)	--	--	2	--	--	--	--	50	50	--	1
404195	Project Stage II	--	6	-	--	--	150	--	50	200	--	6
	<b>Audit Course 6</b>	--	--	--	--	--	--	--	--	--		
<b>Total</b>		13	6	6	120	280	200	50	100	750	13	9
<b>Total Credits</b>											<b>22</b>	
<b>Elective III</b>				<b>Elective-IV</b>				<b>Audit Course 6</b>				
1. Machine Learning 2. PLC s and Automation 3. Audio and Speech Processing 4. Software Defined Radio 5. Audio Video Engineering				1. Robotics 2. Biomedical Electronics 3. Wireless Sensor Networks 4. Renewable Energy Systems 5. Open Elective*				1. Team Building, Leadership and Fitness 2. Environmental issues and Disaster Management				

\*Any one course from the list of Elective IV of computer/IT/Electrical/Instrumentation or Institute can offer elective IV based on any industry need with prior approval from BoS(Electronics & Telecommunication). Repetition of course or topics should be avoided.