

**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							
		Theory	Tut	Pract	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
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><u>Elective III</u></b> 1. Machine Learning 2. PLC s and Automation 3. Audio and Speech Processing 4. Software Defined Radio 5. Audio Video Engineering				<b><u>Elective-IV</u></b> 1. Robotics 2. Biomedical Electronics 3. Wireless Sensor Networks 4. Renewable Energy Systems 5. Open Elective*				<b><u>Audit Course 6</u></b> 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.