

Faculty of Science and Technology

Syllabus B.E. (Electronics) 2015 Course

(With effect from Academic Year 2018 - 19)



SAVITRIBAI PHULE PUNE UNIVERSITY

**THE SYLLABUS IS PREPARED BY:
B.O.S. in Electronics & Telecommunication,
Savitribai Phule Pune University**

Savitribai Phule Pune University
Final Year Electronics 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	
		TH	TUT	PR	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
404201	VLSI Design	3	--	--	30	70	--	--	--	100	3	--
404202	Advanced Power Electronics	4	--	--	30	70	--	--	--	100	4	--
404203	Electronics System Design	3	--	--	30	70	--	--	--	100	3	--
404204	Elective I	3	--	--	30	70	--	--	--	100	3	--
404205	Elective II	3	--	--	30	70	--	--	--	100	3	--
404206	Lab practice -I (APE+ ESD)	--	--	4	--	--	50	50	--	100	--	2
404207	Lab practice -II (VLSI + Ele I)	--	--	4	--	--	50	50	--	100	--	2
404208	Project Stage I	-	2	--	--	--	-	--	50	50	--	2
	Audit Course 5	--	--	--	--	--	--	--	--	--	----	
Total		16	2	8	150	350	100	100	50	750	16	6
Total Credits											22	

Elective I	Elective II
Digital Image and Video Processing	Mobile communication
Audio and Speech Processing	Bio-Medical Electronics
Embedded Systems & RTOS	Optimization techniques
Internet of Things	Computer modelling and simulation
Software Defined Radio	Digital Signal Processor TMS320C67X

Audit Course 5	Foreign Language (Japanese Module 3)
	Critical Thinking

Final Year Electronics Engineering (2015 Course)

(With effect from Academic Year 2018-19)

Semester II												
Course Code	Course	Teaching Scheme Hours / Week			Semester Examination Scheme of Marks						Credit	
		TH	TUT	PR	In-Sem	End-Sem	TW	PR	OR	Total	TH/TW	PR+OR
404209	Computer Networks & Security	3	--	--	30	70	--	--	--	100	3	--
404210	Process Instrumentation	4	--	--	30	70	--	--	--	100	4	--
404211	Elective III	3	--	--	30	70	--	--	--	100	3	--
404212	Elective IV	3	--	--	30	70	--	--	--	100	3	--
404213	Lab practice -III (CNS+PI)	--	--	4	--	--	50	50	--	100	--	2
404214	Lab practice -IV (Elective- III)	--	--	2	--	--	--	50	--	50	--	1
404215	Project Stage II	--	6	--	--	--	150	--	50	200	--	6
	Audit Course 6	--	--	--	--	--	--	--	--	--		
Total		13	6	6	120	280	200	100	50	750	13	9
Total Credits											22	

Elective III	Elective-IV
Automotive Electronics	Robotics
Artificial Intelligence and Machine Learning	Wireless Sensor Networks
Optical and Microwave Communication	Renewable Energy Systems & DSM
Audio Video Engineering	TM4C123GH6PM Microcontroller
Testing and verification for SoC Design	Open Elective*

*Any one subject 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). Repetition of subjects or topics is to be avoided.

Audit Course 6	Foreign Language (Japanese Module 4)
	Technologies, Disruptions and Entrepreneurial Opportunities