

Savitribai Phule Pune University, Pune



Faculty of Science and Technology

Board of Studies

Electrical Engineering

Syllabus

**Second Year Electrical Engineering
(2019 Course)**

(w.e.f. AY: 2020-21)

Savitribai Phule Pune University

Syllabus: Second Year (SE) Electrical Engineering (2019 Course) w.e.f. AY:2020-2021

SEMESTER-I

Course Code	Courses Name	Teaching Scheme			Examination Scheme and Marks						Credits			
		TH	PR	TUT	ISE	ESE	TW	PR	OR	Total	TH	PR	TUT	Total
207006	Engineering Mathematics-III	03	--	--	30	70	--	--	--	100	03	--	--	03
203141	Power Generation Technologies	03	--	--	30	70	--	--	--	100	03	--	--	03
203142	Material Science	03	04#	--	30	70	25	--	25	150	03	02	--	05
203143	Analog and Digital Electronics	03	02	--	30	70	--	50	--	150	03	01	--	04
203144	Electrical Measurement & Instrumentation	03	04#	--	30	70	25	25	--	150	03	02	--	05
203150	Applications of Mathematics in Electrical Engineering	--	02*	--	--	--	25	--	--	25	--	01	--	01
203151	Soft Skill	--	02	--	--	--	25	--	--	25	--	01	--	01
203152	Audit Course-III	--	--	--	--	--	--	--	--	--	Grade: PP/NP			
Total		15	14	--	150	350	100	75	25	700	15	07	--	22

SEMESTER-II

Course Code	Courses Name	Teaching Scheme			Examination Scheme and Marks						Credits			
		TH	PR	TUT	ISE	ESE	TW	PR	OR	Total	TH	PR	TUT	Total
203145	Power System-I	03	--	--	30	70	--	--	--	100	03	--	--	03
203146	Electrical Machines-I	03	02	--	30	70	--	50	--	150	03	01	--	04
203147	Network Analysis	03	02	--	30	70	25	--	--	125	03	01	--	04
203148	Numerical Methods & Computer Programming	03	02	--	30	70	--	25	--	125	03	01	--	04
203149	Fundamental of Microcontroller and Applications	03	04\$	--	30	70	25	--	25	150	03	02	--	05
203152	Project Based Learning	--	04	--	--	--	50	--	--	--	--	02	--	--
203153	Audit Course-IV	--	--	--	--	--	--	--	--	--	Grade: PP/NP			
Total		15	14	--	150	350	100	75	25	700	15	07	--	22

* - Lab sessions on application of Mathematics in Electrical Engineering using professional software.

- Practical section will comprises of two Part : a) PART A : 2 hours per week : Regular curriculum listed practical total 12 numbers out of which conduction of 8 numbers will be mandatory b) PART B : 2 Hours a week :Practical/case studies/assignments to enable active learning based on advances related to subject to bridge gap between curriculum and enhance practical knowledge required in field .

\$ - Practical section will comprises of two Part : a) PART A : 2 hours per week : Regular curriculum listed practical total 12 numbers out of which conduction of 8 numbers will be mandatory b) PART B : 2 Hours a week : IOT application in Electrical Engineering using microcontroller and GSM module to bridge gap between curriculum and enhance application knowledge.

Abbreviation: TH: Theory, PR: Practical, TUT:Tutorial, ISE: Insem Exam, ESE: End Sem Exam, TW: Term Work, OR: Oral