



JSPM's
RAJARSHI SHAHU COLLEGE OF ENGINEERING
TATHAWADE, PUNE-33
(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)



DEPARTMENT OF ELECTRICAL ENGINEERING

STRUCTURE FOR
B. TECH. ELECTRICAL ENGINEERING
(2019 PATTERN)

With effect from A. Y. 2022-2023

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DEPARTMENT OF ELECTRICAL ENGINEERING

Structure for B. Tech. Semester -VII

w.e.f. Academic Year: 2022-2023

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits
		TH	TU	Lab	ISE (15)	MS E (25)	ESE (60)	TW	Lab	Total	
EL4101	Switchgear and Protection	03	-	02	15	25	60	25	25	150	4
EL4102	Power Quality	03	-	02	15	25	60	25	25	150	4
EL4103	Elective-III	03	-	02	15	25	60	25	25	150	4
EL4104	Project Stage I	-	-	12	-	-	-	100	50	150	6
Total		09	00	18	45	75	180	175	125	600	18

Elective III Course Code	Elective III Title
EL4103A	High Voltage Engineering
EL4103B	Energy Audit and Management
EL4103C	Digital Signal Processing



Dr. S. L. Chavan
BoS Chairman



Dr. R. Joshi
Dean Academics



Dr. R. K. Jain
Director RSCOE, Pune


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w.e.f. Academic Year: 2022-2023


Track I –Regular

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits
		TH	TU	Lab	ISE (15)	MSE (25)	ESE (60)	TW	LAB	Total	
EL4105	Smart Grid	03	-	-	15	25	60	-	-	100	03
EL4106	HVDC and FACTS	03	-	02	15	25	60	25	25	150	04
EL4107	Elective IV	03			15	25	60			100	03
EL4108	Project Stage II	-	-	16	-	-	-	150	100	250	08
Total		09	00	18	45	75	180	175	125	600	18

Elective IV Course Code	Elective IV Title
EL4107A	Utilization of Electrical Energy
EL4107B	Artificial Intelligence
EL4107C	Energy Storage System


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Structure for B. Tech. Semester -VIII
w.e.f. Academic Year: 2022-2023

Track II Industry Internship and Project

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks							Credits
		TH	TU	Lab	ISE (15)	MSE (25)	ESE	TW	Lab	OR	Total	
EL4109	Industry Internship	-	-	*20	-	-	-	200	-	150	350	10
EL4110	Project Stage II	-	-	16	-	-	-	150	-	100	250	8
Total		-	-	36	-	-	-	350	-	250	600	18



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w.e.f. Academic Year: 2022-2023

Track III - Entrepreneurship

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits
		TH	TU	Lab	ISE (15)	MSE (25)	ESE (60)	TW	LAB	Total	
EL4111	Automotive Electronics	03	-	02	15	25	60	25	25	150	04
EL4112	Industrial Technology Management	03	-	-	15	25	60	-	-	100	03
EL4113	Elective IV	03			15	25	60			100	03
EL4114	Project Stage II	-	-	16	-	-	-	150	100	250	8
Total		09	-	18	45	75	180	175	125	600	18

Elective IV Course Code	Elective IV Title
EL4113A	Illumination and Design
EL4113B	Corporate Governance and Ethics
EL4113C	Optimization Techniques
EL1443D	Fuel cell



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Structure for B. Tech. Semester -VIII

w.e.f. Academic Year: 2022-2023

Track IV - Higher Studies and Research

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits
		TH	TU	Lab	ISE (15)	MSE (25)	ESE (60)	TW	LAB	Total	
EL4115	Research Methodology	03	-	-	15	25	60	-	-	100	03
EL4116	HVDC and FACTS devices	03	-	2	15	25	60	25	25	150	04
EL4117	Elective IV	03			15	25	60			100	03
EL4118	Project Stage II	-	-	16	-	-	-	150	100	250	08
Total		09	-	18	45	75	180	175	125	600	18

Elective IV Course Code	Elective IV Title
EL4117A	Linear Systems
EL4117B	Computer Added Design in Power System
EL4117C	Illumination and Design
EL4117D	Artificial Intelligence



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