



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



Department of Electrical Engineering
Structure & Syllabus
S. Y. B. Tech (2025 Pattern)
w.e.f. Academic Year 2026-2027

Dr. S. L. Chavan
BoS, Chairman, Electrical

Dr. K. P. Moholkar
Dean Academics

Dr. A. M. Badadhe
Director RSCOE, Pune



Department of Electrical Engineering

Vision

To develop globally competent Electrical Engineers by providing an Industry oriented academic environment that inculcates professional skills and ethics for techno social benefits.

Mission

- To Transform students into successful professionals by inculcating comprehensive knowledge of Electrical Engineering
- To develop a conducive environment through creativity, innovation and industry institute interactions.
- To encourage and enable students for higher education, research and entrepreneurship.

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Program Outcomes (POs)

Engineering Graduates will be able to:

- PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
- PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
- PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
- PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).
- PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
- PO6: The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).
- PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)
- PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
- PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences
- PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

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Knowledge and Attitude Profile (WK)

- WK1:** A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.
- WK2:** Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.
- WK3:** A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.
- WK4:** Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.
- WK5:** Knowledge, including efficient resource use, environmental impacts, whole-life cost, reuse of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area.
- WK6:** Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
- WK7:** Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.
- WK8:** Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.
- WK9:** Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

Program Specific Outcomes (PSOs)

At the end of this program, students will develop-

- PSO1:** To train students for identifying, analysing, designing and providing solution related to control of electrical and electronic system using modern tool.
- PSO2:** To include professional ethics, teamwork, and multi-disciplinary approach for the benefits of society.
- PSO3:** To prepare students for applying knowledge in solving and managing challenges related to industry and entrepreneurship.

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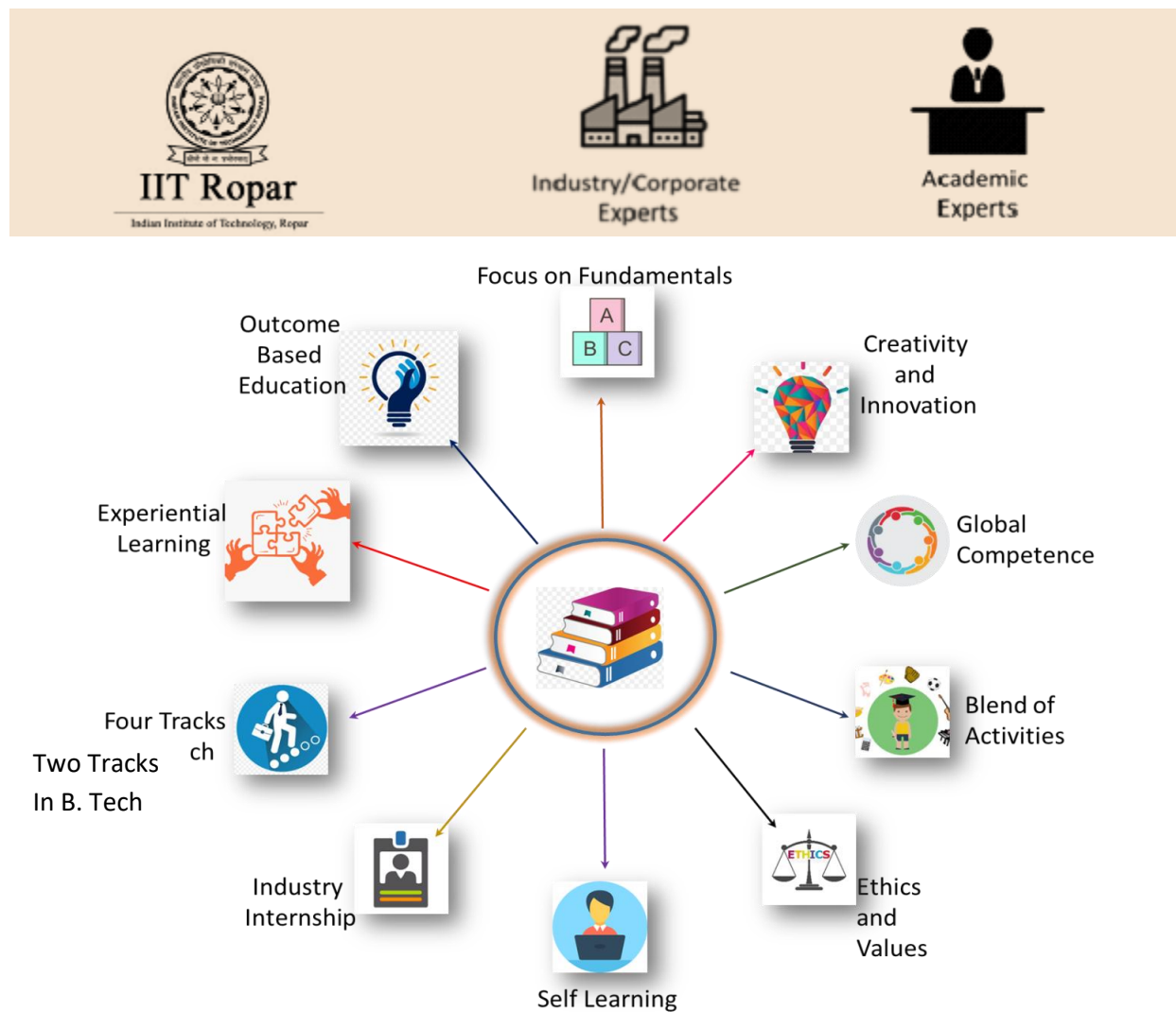
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Department of Electrical Engineering

Highlights of the Syllabus

The Curriculum of UG Program of Electrical Engineering has been designed in association with Indian Institute of Technology, Ropar and Experts from Academics, industries / Corporate & Distinguish Alumni. Major features of the curriculum are presented in the following diagram.



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Unique Features of the Curriculum

1. Curriculum centered at Outcome Based Education:

The new Curriculum is based on student-centered instruction models that focus on measuring student performance through outcomes. The outcomes include subject knowledge, industry required skills and attitudes.

2. Emphasize on Fundamentals:

The nature of the new curriculum is rigorous and well prescribed so that the students can spend more time on preparation and self-study. The students have to learn core subjects, solve practical based assignments and must attempt periodical quizzes. This will benefit them to grasp and keep a strong hold on fundamentals of Engineering in the most effective way.

3. Experiential Learning:

The curriculum emphasizes on hands-on sessions along with theoretical information. The new curriculum considers Problem Based Learning (PBL) as a teaching pedagogy and includes different subjects that encourage the students for hands on learning through virtual labs, mini-projects, etc. Accordingly, the curriculum maintains good balance between theory and laboratory credits.

4. Promote Creativity and Innovation:

Along with experiential learning, the curriculum also motivates the students to inculcate creativity and innovation. Apart from conventional lab, the curriculum provides a freedom for students to perform industry assignments, pilot projects, innovative development, etc.

5. Inculcating Ethics and Values:

To improvise student's behaviour, the curriculum has included systematic courses on ethics and values. The moral principles can help students to make right decisions, lead their professional lives and become ethical citizen.

6. Blend of Curricular and Extracurricular Activities

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The curriculum also gives importance of different activities like co-curricular, extra-curricular, sports, culture, etc. This will help to do all round development of students in all possible ways.

7. Two Tracks in B-Tech:

By offering various courses/electives, flexibility in choosing work in specified field as:

I. Regular

II. Internship and Training

8. Global Competence:

The curriculum provides a unique opportunity for students to learn and engage in open and effective interaction with people from diverse and interconnected world. The combination of foreign languages (German, Japanese, English) and international internships in the curriculum help the students to build a capacity to examine global and intercultural issues and to propose perspectives and views.

9. Industry Induced Internship Program:

To support ever demanding industry requirements, the curriculum has included an industry internship with an objective to learn technologies pertaining to their discipline and enhance their technical knowledge with a support of the live platform of Industry.

10. Motivation for Self-Learning:

The curriculum also offers a freedom to students to take the initiatives in their learning needs and set the goals with the help of online learning platforms like MOOCs, Swayam -NPTEL etc.

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Course Type Abbreviations

BSC: Basic Science Course

ESC: Engineering Science Course

PCC: Program Core Course

PEC: Program Elective Course

MDM: Multidisciplinary Minor

OE: Open Elective

VSEC: Vocational and Skill Enhancement Course

HSSM: Humanities Social Science and Management

AEC: Ability Enhancement Course

IKS: Indian Knowledge System

VEC: Value Education Course

CEP: Community Engagement Project

FP: Field Project

CC: Co-curricular Courses

PR: Project Work

IN: Internship

Assessment Type Abbreviations

TA1: Teacher's Assessment 1

TA2: Teacher's Assessment 2

MSE: Mid Semester Examination

ESE: End Semester Examination

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COURSE WISE CREDIT DISTRIBUTION

Sr. No.	Type of Course	No. of Courses	Total Credits	
			No	%
1	BSC: Basic Science Course	07	20	12.05%
2	ESC: Engineering Science Course	09	20	12.05%
3	PCC: Program Core Course	15	57	34.34%
4	PEC: Program Elective Course	03	12	7.23%
5	MDM: Multidisciplinary Minor	02	02	1.20%
6	OE: Open Elective	03	09	5.42%
7	VSEC: Vocational and Skill Enhancement Course	03	09	5.42%
8	HSSM: Humanities Social Science and Management	03	09	5.42%
9	AEC: Ability Enhancement Course	01	03	1.81%
10	IKS: Indian Knowledge System	01	02	1.20%
11	VEC: Value Education Course	-	-	-
12	CEP: Community Engagement Project	02	01	0.60%
13	FP: Field Project	-	-	-
14	CC: Co-curricular Courses	02	02	1.20%
15	PR: Project Work	03	08	4.82%
16	IN: Internship	01	12	7.23%
Total		62	166	100%

SEMESTER-WISE CREDIT DISTRIBUTION

Sr. No.	Type of Course	No. of Credits / Semester								Total
		1	2	3	4	5	6	7	8	
1	BSC: Basic Science Course	08	08	04	-	-	-	-	-	20
2	ESC: Engineering Science Course	07	10	-	-	-	03	-	-	20
3	PCC: Program Core Course	-	-	14	15	16	08	04	-	57
4	PEC: Program Elective Course	-	-	-	-	-	04	08	-	12
5	MDM: Multidisciplinary Minor	-	-	-	01	-	-	01	-	02
6	OE: Open Elective	-	-	-	-	03	03	03	-	09
7	VSEC: Vocational and Skill Enhancement Course	02	03	-	04	-	-	-	-	09
8	HSSM: Humanities Social Science and Management	-	-	03	-	03	-	03	-	09
9	AEC: Ability Enhancement Course	03	00	-	-	-	-	-	-	03
10	IKS: Indian Knowledge System	02	-	-	-	-	-	-	-	02
11	VEC: Value Education Course	-	-	-	-	-	-	-	--	00
12	CEP: Community Engagement Project	-	01	-	-	-	-	-	-	01
13	FP: Field Project	-	-	-	-	-	-	-	-	-
14	CC: Co-curricular Courses	-	-	-	01	-	01	-	--	02
15	PR: Project Work	-	-	02	-	-	03	03	-	08
16	IN: Internship	-	-	-	-	-	-	-	12	12
Total		22	22	23	21	22	22	22	12	166

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S. Y. B. Tech (Electrical Engineering)
Curriculum Pattern: 2025
Semester -III Structure

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)							
				L	T	P				SL	Hr	C	Continuous Assessment			Semester End Examination	Total Marks
													TA1	MSE	TA2	ESE	
1	PCC	EE2301T	Analog and Digital Circuits	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100			
2	PCC	EE2301L	Analog and Digital Circuits Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50			
3	PCC	EE2302T	Network Analysis	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100			
4	PCC	EE2303T	Electrical Machines-I	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100			
5	PCC	EE2303L	Electrical Machines-I Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50			
6	PCC	EE2304T	Electrical & Electronic Measurement	2 (30)	0	0	2 (30)	2 (60)	2	10	30	10	50	100			
7	PCC	EE2304L	Electrical & Electronic Measurement Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50			
8	BSC	ES2301T	Differential Equations	3 (45)	1 (15)	0	4 (60)	4 (120)	4	10	30	10	50	100			
9	VEC (HSSM)	HS2301T	Universal Human Values & Professional Ethics	2 (30)	1 (15)	0	3 (45)	3 (90)	3	20	30	20	50	100			
10	PR (MDM)	EE2305L	Design thinking and Innovation Laboratory	0	0	4 (40)	1 (20)	4 (60)	2	-	25	-	25	50			
Total				16 (240)	2 (30)	10 (88)	22 (332)	28 (690)	23	60	280	60	400	800			

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S. Y. B. Tech (Electrical Engineering)
Curriculum Pattern: 2025
Semester -IV Structure

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Marks
				L	T	P				SL	Hr	C	TA1	
1	PCC	EE2305T	Introduction to power system	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
2	PCC	EE2306T	Control System	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
3	PCC	EE2306L	Control System Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
4	PCC	EE2307T	Microcontroller	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
5	PCC	EE2307L	Microcontroller Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
6	PCC	EE2308T	Electrical Machines-II	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
7	PCC	EE2308L	Electrical Machines-II Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
8	BSC (AEC)	EE2309T	Python for Computational Mathematics	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
9	BSC (AEC)	ES2303L	Computational Mathematics Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
10	MDM	EE2309L	AI for Electrical Engineers Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
11	CCC	CCA2301L	Extra-Curricular (Hackathon/NSS/ Sports/Selected Club activity	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
Total				15 (225)	0	12 (96)	21 (309)	27 (630)	21	50	300	50	400	800

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T. Y. B. Tech (Electrical Engineering)
Curriculum Pattern: 2025
Semester -V Structure

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester) Hr	Credit C	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Marks
				L	T	P				TA1	MSE	TA2	ESE	
1	PCC	EE3301T	Power system analysis	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
2	PCC	EE3301L	Power system analysis Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
3	PCC	EE3302T	Design of Control system	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
4	PCC	EE3302L	Design of Control system Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
5	PCC	EE3303T	Signals and Systems	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
6	PCC	EE3304T	Power Electronics	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
7	PCC	EE3304L	Power Electronics Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
8	PCC	EE3305L	Engineering Innovation and Society – I	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
9	OE		Open Elective-I	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
10	HSSM (AEC)	HS3301T	Economics for Engineers: Markets, Policy and Development	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
Total				18 (270)	0	8 (64)	22 (326)	26 (660)	22	60	280	60	400	800

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T. Y. B. Tech (Electrical Engineering)
Curriculum Pattern: 2025
Semester -VI Structure

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	
1	PCC	EE3306T	Electrical Machine Design	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
2	PCC	EE3306L	Electrical Machine Design Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
3	PCC	EE3307T	Power system operation and control	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
4	PCC	EE3307L	Power system operation and control Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
5	PE	EE3308T	Professional Elective -I	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
6	PE	EE3308L	Professional Elective -I Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
7	Project	EE3309L	Engineering Innovation and Society – 2	0	0	6 (48)	3 (42)	6 (90)	3	-	50	-	50	100
8	ES (VEC)	ES3301L	Environmental Systems and Sustainability Engineering	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
9	OE		Open Elective-II	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
10	AEC	CCA330IL	Workplace Communication and Analytical Skills	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
Total				15 (225)	0	14 (112)	22 (323)	29 (660)	22	50	300	50	400	800

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Final Year B. Tech (Electrical Engineering)

Curriculum Pattern: 2025

Semester -VII Structure

Level 5.5: UG-Diploma/ Diploma-Eng

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Marks
				L	T	P				SL	Hr	C	TA1	
1	PCC	EE4301T	Switchgear and Protection	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
2	PCC	EE4301L	Switchgear and Protection Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
3	PE	EE4302T	Professional Elective -II	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
4	PE	EE4302L	Professional Elective -II Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
5	PE	EE4303T	Professional Elective -III	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
6	PE	EE4304L	Seminar and Technical communication	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
7	Project	EE4305L	Engineering Innovation and Society – 3	0	0	6 (48)	3 (42)	6 (90)	3	-	50	-	50	100
8	MDM	EE4306L	Industry 4.0 Automation Laboratory	0	0	2 (16)	1 (14)	2 (30)	1	-	25	-	25	50
9	HSSM	HS4301T	Foundation Management and entrepreneurship	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
10	OE		Open Elective III	3 (45)	0	0	3 (45)	3 (90)	3	10	30	10	50	100
Total				15 (225)	0	14 (112)	22 (323)	29 (660)	22	50	300	50	400	800

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Final Year B. Tech (Electrical Engineering)
Curriculum Pattern: 2025
Semester -VIII Structure (Level 6-B. Tech)

S. N.	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning	Total Classroom Contact hr/week (Contact hr/semester)	Credit	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination	Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	
1	IN	EE4307L	Industrial Internship				0 (540)	540 [#]	12	300			200	500
Total								540	12	300			200	500

1 Credit = 45 hours of Work as per AICTE Internship Guideline

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B. Tech Electrical Engineering (Honor Course)
“e- Mobility”

SN	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning (Contact hr/semester)	Total Classroom Contact hr/week (Contact hr/ semester)	Credit	Examination scheme (Marks)				Total Marks
										Continuous Assessment			Semester End Examination	
				L	T	P	SL	Hr		C	TA1	MSE	TA2	
S. Y. SEM-IV														
1	PCC	EEH2201T	Introduction to Electric Vehicle Technology	3 (45)	0 (0)	0 (0)	- (45)	3 (90)	3	10	30	10	50	100
2	PCC	EEH 2201L	Introduction to Electric Vehicle Technology Laboratory	0 (0)	0 (0)	2 (20)	- (10)	2 (30)	1	10	10	10	20	50
T. Y. SEM-V														
3	PCC	EEH3201T	EV drives and control	3 (45)	0 (0)	0 (0)	- (45)	3 (90)	3	10	30	10	50	100
4	PCC	EEH3201L	EV drives and control Laboratory	0 (0)	0 (0)	2 (20)	- (10)	2 (30)	1	10	10	10	20	50
T. Y. SEM-VI														
5	PCC	EEH 3202T	Battery management System	3 (45)	1 (15)	0 (0)	- (60)	4 (120)	4	10	30	10	50	100
B. Tech. SEM-VII														
6	PCC	EEH4201T	Introduction to Embedded System and AI, ML for EV	3 (45)	0 (0)	0 (0)	- (45)	3 (90)	3	10	30	10	50	100
7	PCC	EEH4202L	Mini Project	0 (0)	0 (0)	6 (60)	- (30)	6 (90)	3	30	30	30	60	150
Total				12	01	10	245	23	18	90	170	90	300	650

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