



Established: 1999

Annasaheb Dange College of Engineering and Technology

Ashta - 416301, Dist. : Sangli, Maharashtra

(An Empowered Autonomous Institute)



F.Y. B.Tech. – Electrical Engineering [Level 4.5, UG Certificate] Semester - I

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3EEBS101	Mathematics-I	3	1	-	4	4	40	20	40	-	-
02	BS	LIT2	3EEBS102	Engineering Physics	3	-	2	3	4	40	20	40	50	-
03	ES	LIT2	3EEES103	Applied Mechanics	3	-	2	3	4	40	20	40	50	-
04	ES	T1	3EEES104	Introduction to Emerging Technologies	2	-	-	2	2	40	20	40	-	-
05	ES	LIT2	3EEES105	Fundamentals of Electrical Engineering	3	-	2	3	4	40	20	40	50	-
06	IKS	T2	3EEHS106	Indian Knowledge System	2	-	-	2	2	-	50	-	-	-
07	VS	LIT2	3EEVS107	IDEA Lab Workshop	1	-	2	1	2	-	-	-	50	-
08	CC	L2	3EECC108	Liberal Learning Course	-	-	2	-	1	-	-	-	50	-
Total					17	1	10	18	23					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : $\geq 8 / 20$		MSE + ESE (Theory) : $\geq 32 / 80$			TA (Theory) / CIA (Lab) : $\geq 20 / 50$			ESE (Lab) : $\geq 20/50$			

CC Bouquet :

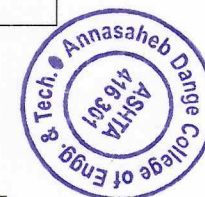
3BSCC121 - Introduction to Yoga and Mindfulness	3BSCC123 - Six-Sigma Happiness and Mind Mechanics	3BSCC125 - Community Engagement through NSS
3BSCC122 - Physical Fitness and Lifestyle Management	3BSCC124 - Creativity through Visual Arts	3BSCC126 - Cultural Exploration & Heritage
3BSCC127- Leadership and Team management	3BSCC128- Self Management and Purposeful Living,	3BSCC129- Business Communication
3BSCC130- Mathematical Reasoning	3BSCC131- Introduction to Dance and Movement	3BSCC132- Introduction to Music and Singing
3BSCC133-Happiness and Well-Being	3BSCC134- Financial Literacy & Investment Awareness	3BSCC135-Cyber Awareness and Ethics

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC





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F.Y. B.Tech. – Electrical Engineering [Level 4.5, UG Certificate] Semester - II

[Level 4.3, UG Certificate] Semester - II														
Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3EEBS109	Mathematics-II	3	1	-	4	4	40	20	40	-	-
02	BS	LIT2	3EEBS110	Engineering Chemistry	2	-	2	2	3	40	20	40	50	-
03	ES	LIT2	3EEES111	Engineering Graphics with CAD	3	-	2	3	4	40	20	40	50	-
04	ES	L2	3EEES112	Programming for Problem Solving	1	-	2	1	2	-	-	-	50	-
05	ES	L2	3EEES113	Design Thinking	-	-	2	-	1	-	-	-	50	-
06	HS	L2	3EEHS114	Communication Skills	-	-	4	-	2	-	-	-	50	-
07	PC	LIT2	3EEPC115	Analog Electronics	3	-	2	3	4	40	20	40	50	-
08	CC	L2	3EECC116	Liberal Learning Course	-	-	2	-	1	-	-	-	50	-
Total					12	1	16	13	21					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

CC Bouquet :

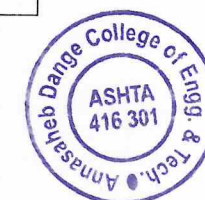
3BSCC121 - Introduction to Yoga and Mindfulness	3BSCC123 - Six-Sigma Happiness and Mind Mechanics	3BSCC125 - Community Engagement through NSS
3BSCC122 - Physical Fitness and Lifestyle Management	3BSCC124 - Creativity through Visual Arts	3BSCC126 - Cultural Exploration & Heritage
3BSCC127- Leadership and Team management	3BSCC128- Self Management and Purposeful Living,	3BSCC129- Business Communication
3BSCC130- Mathematical Reasoning	3BSCC131- Introduction to Dance and Movement	3BSCC132- Introduction to Music and Singing
3BSCC133-Happiness and Well-Being	3BSCC134- Financial Literacy & Investment Awareness	3BSCC135-Cyber Awareness and Ethics

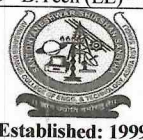
Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC



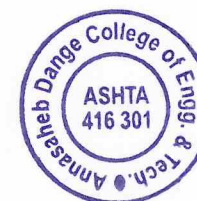


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Exit after F.Y. B.Tech. – Electrical Engineering
Additional Credits to qualify for B.Voc Certificate

Students have to undergo an 8-week Internship in Industrial equipment installation and wiring in order to qualify for B.Voc (Exit after F. Y. B. Tech – Electrical Engineering).

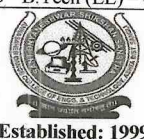



Member Secretary-BoS


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S.Y. B.Tech. – Electrical Engineering
[Level 4.5, UG Certificate] Semester - III

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3EEBS201	Applied Mathematics-III	3	-	-	3	3	40	20	40	-	-
02	PC	LIT2	3EEPC202	Electric Circuit Analysis	3	-	2	3	4	40	20	40	50	-
03	PC	LIT1	3EEPC203	Digital Electronics and Microcontrollers	3	-	2	3	4	40	20	40	50	50
04	PC	LIT1	3EEPC204	Measurement and Instrumentation	2	-	2	2	3	40	20	40	50	50
05	VSEC	LIT2	3EEVS205	Python Programming	1	-	2	1	2	-	50	-	50	-
06	HS	T2	3EEHS206	Universal Human Values	2	-	-	2	2	-	50	-	-	-
07	HS	T2	3EEHS207	Indian Constitution	1	-	-	1	1	-	50	-	-	-
08	HS	T2	3EEHS208	Environment Studies	2	-	-	2	2	-	50	-	-	-
09	HS	T2	3EEHS209	Psychology	1	-	-	1	1	-	50	-	-	-
10	MA	T2	3EEMA210	Aptitude and Reasoning-I	2	-	-	2	-	-	50	-	-	-
Total					20	-	8	20	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

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S.Y. B.Tech. – Electrical Engineering [Level 4.5, UG Certificate] Semester - IV

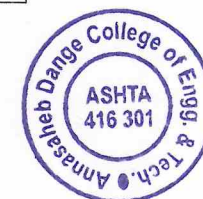
[Level 4-3, UG Certificate] Semester - IV														
Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	T1	3EEPC212	Electromagnetic Fields	2	1	-	3	3	40	20	40	-	-
02	PC	LIT1	3EEPC213	DC Machines and Transformers	3	-	2	3	4	40	20	40	50	50
03	PC	LIT1	3EEPC214	Signals and Systems	3	-	2	3	4	40	20	40	50	50
04	PE	T1	3EEPE2XX	Professional Elective - 1	3	-	-	3	3	40	20	40	-	-
05	MM	LIT2	3EESE220	Multidisciplinary Minor - I	3	-	2	3	4	40	20	40	50	-
06	OE	T2	3EEOE2XX	Open Elective – 1	2	-	-	2	2	-	-	100	-	-
07	HS	T2	3EEHS2XX	Foreign Language	2	-	-	2	2	-	50	-	-	-
08	RM	L2	3EERM226	Research Methodology	-	-	2	-	1	-	-	-	50	-
09	EL	L2	3EEEL227	Innovation and Product Development	-	-	2	-	1	-	-	-	50	-
10	MA	T2	3EEMA228	Aptitude and Reasoning-II	2	-	-	2	-	-	50	-	-	-
Total					22	1	8	21	24					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Summer Internship (in Industry, R&D organization, or Academic Institute) shall be undertaken after the IV Semester during the summer vacation. The evaluation of the internship will be conducted during the V Semester														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50		ESE(Theory) : ≥ 40/ 100			
Foreign Language Bouquet:			3EEHS224 - Foreign Language – German			3EEHS225 - Foreign Language – Japanese								

Member Secretary-BoS

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Member Secretary-AC

Chairman-AC





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Bridge Course: (DSY – Lateral Entry Students)

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	III	BS	T1	3EEBS211	Matrix Algebra, Calculus and Probability*	3	-	-	3	3	-	-	100	-	-
02	II	HS	T2	3EEHS114	Communication Skills	-	-	4	-	2	-	-	-	50	-

Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination

Minimum Passing Criteria											CIA (Lab) : $\geq 20/50$		ESE (Theory) : $\geq 40/100$		
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- Designed for DSY

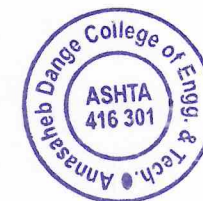
Note: All Direct Second Year students admitted to the B.Tech. Electrical Engineering programme shall compulsorily undergo the prescribed bridge courses. Students admitted from diploma programmes other than the parent discipline shall additionally complete bridge courses as prescribed by the designated committee.

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

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Bridge Course: Change in Curriculum Revision - R2 to R3

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	I	ES	T1	3EEES104	Introduction to Emerging Technologies	1	-	2	1	2	--	--	100	--	--
02	I	VS	LIT2	3EEVS107	IDEA Lab Workshop	2	-	-	2	2	--	--	--	50	--
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria								CIA (Lab) : $\geq 20/50$				ESE (Theory) : $\geq 40/100$			

Note : Students shall complete the prescribed Semester I Bridge Courses during Semester III (Odd Semester) and the prescribed Semester II Bridge Courses during Semester IV (Even Semester).


 Member Secretary-BoS


 Chairman -BoS


 Member Secretary-AC


 Chairman-AC




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Exit Criteria after S.Y. B. Tech Electrical Engineering

(As per AICTE Guidelines)

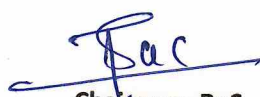
Eligibility Criteria

- All conditions applicable to the Exit Option After First Year shall also apply. In addition, the following criteria must be met:
- Students will have the option to exit the Electrical Engineering Program after successfully completing the second year.
- To qualify this exit option students must complete Internship of minimum 8 weeks in Electrical Engineering related field, aimed at enhancing practical knowledge and industry exposure. Students must submit **internship** report in accordance with the schedule and guidelines provided.

Outcome:

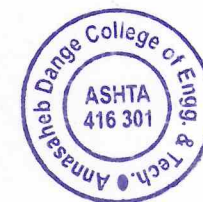
- Upon exit, they will be awarded an **Undergraduate Diploma in Electrical Engineering**.


Member Secretary-BoS


Chairman -BoS


Member Secretary-AC


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T.Y. B. Tech. Electrical Engineering

[Level 5.5, UG B.Voc] Semester - V

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	LIT1	3EEPC301	AC Machines	3	-	2	3	4	40	20	40	50	50
02	PC	LIT2	3EEPC302	Generation, Transmission and Distribution	2	-	2	2	3	40	20	40	50	-
03	PC	LIT1	3EEPC303	Control Systems	3	-	2	3	4	40	20	40	50	50
04	PE	LIT2	3EEPE3XX	Professional Elective - II	3	-	2	3	4	40	20	40	50	-
05	MM	T1	3EESE309	Multidisciplinary Minor - II	3	-	-	3	3	40	20	40	-	-
06	OE	T2	3EEOE3XX	Open Elective – II	2	-	-	2	2	-	-	100	-	-
07	HS	T2	3EEHS313	Project Management and Finance	2	-	-	2	2	-	50	-	-	-
08	HS	L2	3EEHS314	Entrepreneurship	-	-	2	-	1	-	-	-	50	-
09	EL	L2	3EEEL315	Summer Internship	-	-	-	-	1	-	-	-	50	-
10	MA	L2	3EEMA316	Aptitude and Reasoning-III	-	-	2	-	-	-	-	-	50	-
Total					18	-	12	18	24					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE(Theory) : ≥ 40/ 100				

Member Secretary-BoS

Chairman -BoS

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T.Y. B. Tech. Electrical Engineering [Level 5.5, UG B.Voc] Semester - VI

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	LIT1	3EEPC317	Power Electronics	3	-	2	3	4	40	20	40	50	50
02	PC	LIT1	3EEPC318	Power System Analysis	2	-	2	2	3	40	20	40	50	50
03	PE	T1	3EEPE3XX	Professional Elective - III	3	-	-	3	3	40	20	40	-	-
04	MM	LIT2	3EESA324	Multidisciplinary Minor – III	3	-	2	3	4	40	20	40	50	-
05	OE	T2	3EEOE3XX	Open Elective – III	2	-	-	2	2	-	-	100	-	-
06	VSEC	LIT2	3EEVS328	Electrical Machine Design	1	-	2	1	2	-	-	-	50	-
07	CEA	L2	3EECE329	Mini Project	-	-	4	-	2	-	-	-	50	-
08	SS	T2	3EESA330	Self Study Course - I	2	-	-	2	2	-	-	100	-	-
09	MA	L2	3EEMA331	Aptitude and Reasoning-IV	-	-	2	-	-	-	-	-	50	-
Total					16	-	14	16	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIE (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE(Theory) : ≥ 40/ 100				

Member Secretary-BoS

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Annasaheb Dange College of Engineering and Technology

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(An Empowered Autonomous Institute)**Exit Criteria after T.Y. B. Tech Electrical Engineering**

(As per AICTE Guidelines)

Eligibility Criteria:

- Completion of all core courses in the first three years of the engineering curriculum.
- Demonstration of both theoretical understanding and practical application through:
 - Industry-Relevant Practical Training: Including internships or apprenticeships.
 - Advanced Skill-Based Course: Aligning with current industry needs.
 - Internship/Apprenticeship: At least 8 weeks in a relevant engineering field.
 - Community Engagement Project: Real-world problem-solving with societal benefit.
 - Capstone Project (Optional): Integration and application of learning outcomes across three years.

Outcome:

Students will be awarded a **B. Voc. Degree in Electrical Engineering**, signifying a strong foundation in engineering concepts, technical proficiency, and vocational readiness.

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

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Final Year B. Tech.- Electrical Engineering

[Level 6, UG B.Tech] Semester - VII

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	LIT1	3EEPC401	Digital Protection and Switchgear	2	-	2	2	3	40	20	40	50	50
02	PC	LIT1	3EEPC402	Electric Vehicle Technology	3	-	2	3	4	40	20	40	50	50
03	PC	LIT2	3EEPC403	Industrial Automation	2	-	2	2	3	40	20	40	50	-
04	PE	LIT2	3EEPE4XX	Program Elective - IV	3	-	2	3	4	40	20	40	50	-
05	PE	T1	3EEPE4XX	Program Elective - V	3	-	-	3	3	40	20	40	-	-
06	MM	T1	3EESE414	Multidisciplinary Minor – IV	3	-	-	3	3	40	20	40	-	-
07	EL	L1	3EEEL416	Project	-	-	8	-	4	-	-	-	50	50
Total					16	-	16	16	24					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIE (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

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Final Year B. Tech.- Electrical Engineering

[Level 6, UG B.Tech] Semester - VIII

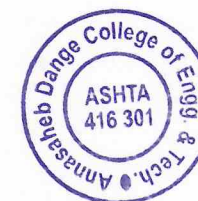
Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PE	T1	3EEPE4**	Program Elective - VI	2	-	-	2	2	40	20	40	-	-
02	EL	L2	3EEEL423	Internship	-	-	-	-	12	-	-	-	50	-
03	SS	T2	3EESS424	Self Study Course - II	-	-	-	-	2	-	-	100	-	-
Total					02	-	-	02	16					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIE (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50		ESE(Theory) : ≥ 40/ 100			

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Program Elective Courses (PECs) / Honor's Track (20 Credits)

Specialization/ Track Name	Department Professional Elective Courses					
	PE -I (3-0-0)	PE - II (3-0-2)	PE -III (3-0-0)	PE -IV (3-0-2)	PE- V (3-0-0)	PE -VI (3-0-0)
Class	S. Y. B. Tech	T. Y. B. Tech	T. Y. B. Tech	Final Year B. Tech	Final Year B. Tech	Final Year B. Tech
Semester	IV	V	VI	VII	VII	VIII
E-Mobility	Architectures of Electric and Hybrid Vehicles (3EEPE215)	Energy Storage Systems in Electric Vehicles (3EEPE304)	Power Electronics for EV Drivetrain (3EEPE319)	Charging Infrastructure (3EEPE404)	Design of EV Drivetrain (3EEPE409)	MOOC Courses offered by NPTEL/SWAYAM only (3EEPE418 to 3EEPE422)
Power Systems	Utilization of Electrical Energy (3EEPE216)	High Voltage Engineering (3EEPE305)	Flexible AC Transmission Systems (3EEPE320)	Electrical Installation, testing and Maintenance Systems (3EEPE405)	Power Quality (3EEPE410)	
Control Systems	Mathematical Modelling of Dynamic Systems (3EEPE217)	Advanced Control Systems (3EEPE306)	Intelligent Control (3EEPE321)	Electric Drives (3EEPE406)	Machine Learning and Artificial Intelligence (3EEPE411)	
Renewable Energy	Energy Economics (3EEPE218)	Solar Technology (3EEPE307)	Distributed Generation (3EEPE322)	Wind Energy Conversion Systems (3EEPE407)	Artificial Intelligence for Renewable Energy Systems (3EEPE412)	
Embedded Systems	Introduction to Embedded Systems (3EEPE219)	Embedded System Programming (3EEPE308)	Real Time Operating Systems (3EEPE323)	Advanced Embedded System with IOT (3EEPE408)	Smart Grid (3EEPE413)	

- Students may choose Professional Elective courses from a single track or across multiple tracks, based on their academic interests and career aspirations.
- Only one Professional Elective course may be selected from a given column in a semester. Additional courses from the same column may be taken in subsequent semesters, but not concurrently.
- Students opting for the Honors Degree shall complete all Honors courses from a single track, which shall be different from the track chosen for their Professional Elective courses.


Member Secretary-BoS


Chairman -BoS


Member Secretary-AC


Chairman-AC





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Multidisciplinary Minor(14 Credits)

Minor Stream - Sustainable E-Mobility (SE)

Sr. No.	Semester	Course Category	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	IV	MM	3EERE220	Fundamentals of Electric Vehicles	3	-	2	3	4	40	20	40	50	-
02	V	MM	3EERE309	Battery Technology for Electric Vehicles	3	-	-	3	3	40	20	40	-	-
03	VI	MM	3EERE324	Motor control for Electric Vehicles	3	-	2	3	4	40	20	40	50	-
04	VII	MM	3EERE414	Converters for Electric Vehicles	3	-	-	3	3	40	20	40	-	-
Total					12	-	04	12	14					

Emerging Specialization Minor (18 Credits)

Minor Stream - Renewable Energy (RE)

Sr. No.	Semester	Course Category	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	IV	SM	3EERE221	Solar and Wind Energy	3	-	2	3	4	40	20	40	50	-
02	V	SM	3EERE310	Economics of Energy Systems	3	-	-	3	3	40	20	40	-	-
03	VI	SM	3EERE325	Energy storage systems	3	-	2	3	4	40	20	40	50	-
04	VII	SM	3EERE415	Grid interface of Renewable Energy sources	3	-	-	3	3	40	20	40	-	-
05	VII	SM	3EERE424	Minor Project	0	-	8	-	4	-	-	-	100	-
Total					12	-	12	12	18					

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**Honors with Research (20 Credits)**

Sem	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
VII	EL	L1	3EEEL417	Research Project (Part 1)	-	-	20	-	10	-	-	-	50	50
VIII	EL	L1	3EEEL425	Research Project (Part 2)	-	-	20	-	10	-	-	-	50	50
			Total				40		20					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥8/20		MSE + ESE (Theory): ≥32/80			TA (Theory) / CIA (Lab) : ≥20/50			ESE (Lab) : ≥20/50			

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Department of Electrical Engineering											
B. Tech. Program in Electrical Engineering (176 Credits)											
Course Category	Acronym	I	II	III	IV	V	VI	VII	VIII	Total	% of Category
Basic Science Course	BS	8	7	3	0	0	0	0	0	19	11
Engineering Science Course	ES	10	7	0	0	0	0	0	0	17	10
Programme Core Course	PC	0	4	11	11	11	7	10	0	52	30
Programme Elective Course	PE	0	0	0	3	4	3	7	2	20	11
Open Elective (other than particular program)	OE	0	0	0	2	2	2	0	0	6	3
Multidisciplinary Minor	MDM	0	0	0	4	3	4	3	0	14	8
Vocational and Skill Enhancement Course	VSEC	2	0	2	0	0	2	0	0	6	3
Humanities Social Science and Management	HSSM	0	2	6	2	3	0	0	0	15	9
Indian Knowledge System	IKS	2	0	0	0	0	0	0	0		
Value Education Course	VEC	0	0	0	0	0	0	0	0		
Research Methodology	RM	0	0	0	1	0	0	0	0	19	11
Experiential Learning (Internship, Project)	EL	0	0	0	1	1	0	4	12		
Community Engagement Activity (CEA)/Field Project	CEA	0	0	0	0	0	2	0	0	2	1
Co-curricular & Extracurricular Activities	CCA	1	1	0	0	0	0	0	0	2	1
Self Study	SS	0	0	0	0	0	2	0	2	4	2
Total		23	21	22	24	24	22	24	16	176	100

Member Secretary-BoS

Chairman-BoS

Member Secretary-AC

Chairman-AC

