 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		


Curriculum Structure for the 2018-22 batch

Semester: III

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB203 / 15EMAB232	Integral Transforms and Statistics / Calculus and Integral Transforms	4	0	0	50	50	100	4	4	3 hours
2	19EEEC201	Circuit Analysis	4	0	0	50	50	100	4	4	3 hours
3	15EEEC202	Analog Electronic Circuits	4	0	0	50	50	100	4	4	3 hours
4	19EEEC203	Digital Circuits	4	0	0	50	50	100	4	4	3 hours
5	19EEEC202	Electrical Power Generation, Transmission & Distribution	3	0	0	50	50	100	3	3	3 hours
6	15EEEP201	Microcontroller Architecture & Programming	0	1	1	80	20	100	2	4	2 hours
7	15EEEP202	Analog Electronics Laboratory	0	0	1	80	20	100	1	2	2 hours
8	15EEEP203	Digital Circuits Laboratory	0	0	1	80	20	100	1	2	2 hours
TOTAL			19	01	03				23	27	

- C programming 18EEEF201 (0-0-2)

ISA: In-semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2018-22 batch

Semester: IV

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB208 / 15EMAB242	Linear Algebra and Partial differential equations / Vector calculus and differential equations	4	0	0	50	50	100	4	4	3 hours
2	19EEEC204	Electrical Machines	4	0	0	50	50	100	4	4	3 hours
3	17EEEC204	Linear Control Systems	3	0	0	50	50	100	3	3	3 hours
4	15EEEC207	ARM Processor & Applications	3	0	0	50	50	100	3	3	3 hours
5	19EEEC205	Signals & Systems	3	0	0	50	50	100	3	3	3 hours
6	15EEEP205	ARM Microcontroller Lab	0	0	1	80	20	100	1	2	2 hours
7	18EEEP202	Control System Lab	0	0	1	80	20	100	1	2	2 hours
8	18EEEP203	Digital System Design using Verilog	0	0	2	80	20	100	2	4	2 hours
TOTAL			17	0	04				21	25	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2018-22 batch

Semester: V

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	20EEEC302	Power Electronics	3	0	0	50	50	100	3	3	3 hours
2	17EEEC302	Power System Analysis & Stability	3	0	0	50	50	100	3	3	3 hours
3	17EEEC303	OS & Embedded Systems	3	0	0	50	50	100	3	3	3 hours
4	20EEEC301	Digital Signal Processing	3	0	0	50	50	100	3	3	3 hours
5	18EEEC301	Linear Integrated Circuits	3	0	0	50	50	100	3	3	3 hours
6	19EEEC301	Machine Learning	2	0	1	50	50	100	3	4	3 hours
7	17EEEP306	RTOS Lab	0	0	1	80	20	100	1	2	2 hours
8	19EEEP301	Machines Lab	0	0	1	80	20	100	1	2	2 hours
9	17EEEW301	Mini project	0	0	3	50	50	100	3	6	2 hours
TOTAL			17	0	6				23	29	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2018-22 batch

Semester: VI

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	19EEEC302	Electric Drives and Control	3	0	0	50	50	100	3	3	3 hours
2	17EEEC307	Automotive Electronics	3	0	0	50	50	100	3	3	3 hours
3	19EEEC303	Object Oriented Programming using C++	2	0	1	50	50	100	3	3	3 hours
4	19EEEE301	Program Elective 1 CMOS VLSI Circuits	3	0	0	50	50	100	3	3	3 hours
5	19EEEE302 18EEEE302	Program Elective 2 Battery Management Systems Modeling and Analysis of Hybrid Electrical Energy Systems	3	0	0	50	50	100	3	3	3 hours
6	16EHSC301	PA & LR	3	0	0	50	50	100	3	3	3 hours
7	20EEEP301	Power Electronics Drives Lab	0	0	1	80	20	100	1	2	2 hours
8	17EEEP305	Automotive Electronics Lab	0	0	1	80	20	100	1	2	2 hours
9	17EEEW302	Minor Project	0	0	6	50	50	100	6	12	2 hours
			17	0	9				26	34	


ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the year 2018-22 batch

Semester: VII


Sl.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	17EEEC401	Switched Mode Power Converters	3	0	0	50	50	100	3	3	3 hours
2	19EEEC401	Power System Modeling, Operation & Control	3	0	0	50	50	100	3	3	3 hours
3	21EEEE402	Program Elective 3 AUTOSAR	3	0	0	50	50	100	3	3	3 hours
4	20EEEE401	Program Elective 4 Traction system for Electric Vehicles	3	0	0	50	50	100	3	3	3 hours
	20EEEE402	Powertrain Control Laboratory	0	0	3	80	20	100	3	6	2 hours
5	17EEEE405	Program Elective 5 Smart Grid Technologies	3	0	0	50	50	100	3	3	3 hours
	19EEEE401	Flexible AC Transmission Systems	3	0	0	50	50	100	3	3	3 hours
6	15EHSA401	Constitution of India, Professional Ethics and Environmental Studies	0	0	0	50	50	100	0	2	3 hours
7	19EEEP401	Power System Simulation Lab	0	0	1	80	20	100	1	2	2 hours
8	20EEEP401	Relay and High Voltage Engineering lab	0	0	2	80	20	100	2	4	2 hours
9	21EEEW401	Senior Design Project	0	0	6	50	50	100	6	12	2 hours

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0
Curriculum Structure with Content- Course wise			

	12	0	09				24	32	
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- 17EEEE490 – RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) – (0-0-6)
- 21EEEE491 – INSTITUTIONAL RESEARCH PROJECT (IRP) – (0-0-6)


ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Semester: VIII


Sl.No	Course code	Course Title		Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
				L	T	P	ISA	ESA	Sub total			
1	19EEEE402	Embedded Linux	18EEEI493	0	0	3	50	50	100	3	4	2 hours
2	17EEEO402	Artificial Intelligence	Internship - Training (0-0-6)	3	0	0	50	50	100	3	3	3 hours
3	21EEEW402	Capstone Project	20EEEW494 Internship-Project (0-0-11)	0	0	11	50	50	100	11	22	2 hours
				3	0	14				17	29	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0

Program Electives					
Vertical -1 (Embedded Systems)		Vertical -2 (e - Mobility)		Vertical -3 (Modern Power and Energy Systems)	
Courses	sem	Courses	sem	Courses	sem
CMOS & VLSI	6 th	Battery Management Systems	6 th	Modelling and Analysis of Hybrid Electrical Energy Systems	6 th
AUTOSAR	7 th /8 th	Traction system for Electric Vehicles	7 th /8 th	Smart Grid Technologies	7 th /8 th
Embedded Linux	7 th /8 th	Powertrain Control Laboratory	7 th /8 th	Flexible AC Transmission Systems	7 th /8 th

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0


Curriculum Structure for the 2019-23 batch

Semester: III

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB203 / 15EMAB232	Integral Transforms and Statistics / Calculus and Integral Transforms	4	0	0	50	50	100	4	4	3 hours
2	19EEEC201	Circuit Analysis	4	0	0	50	50	100	4	4	3 hours
3	15EEEC202	Analog Electronic Circuits	4	0	0	50	50	100	4	4	3 hours
4	19EEEC203	Digital Circuits	4	0	0	50	50	100	4	4	3 hours
5	19EEEC202	Electrical Power Generation, Transmission & Distribution	3	0	0	80	20	100	3	3	3 hours
6	15EEEP201	Microcontroller Architecture & Programming	0	1	1	80	20	100	2	4	2 hours
7	15EEEP202	Analog Electronics Laboratory	0	0	1	80	20	100	1	2	2 hours
8	15EEEP203	Digital Circuits Laboratory	0	0	1	80	20	100	1	2	2 hours
TOTAL			19	01	03				23	27	

- C programming 18EEEF201 (0-0-2)

ISA: In-semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0

Curriculum Structure for the 2019-23 batch

Semester: IV

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB208 / 15EMAB242	Linear Algebra and Partial differential equations / Vector calculus and differential equations	4	0	0	50	50	100	4	4	3 hours
2	19EEEC204	Electrical Machines	4	0	0	50	50	100	4	4	3 hours
3	17EEEC204	Linear Control Systems	3	0	0	50	50	100	3	3	3 hours
4	15EEEC207	ARM Processor & Applications	3	0	0	50	50	100	3	3	3 hours
5	19EEEC205	Signals & Systems	3	0	0	50	50	100	3	3	3 hours
6	20EEEC201	Power Electronics	3	0	0	50	50	100	3	3	3 hours
7	15EEEP205	ARM Microcontroller Lab	0	0	1	80	20	100	1	2	2 hours
8	18EEEP203	Digital System Design using Verilog	0	0	2	80	20	100	2	4	2 hours
TOTAL			20	0	3				23	26	

ISA: In-semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0
	Curriculum Content- Course wise 2019-23 Batch		

Curriculum Structure for the 2019-23 batch

Semester: V

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	17EEEC302	Power System Analysis & Stability	3	0	0	50	50	100	3	3	3 hours
2	21EEEC301	Electric Drives & Control	3	0	0	50	50	100	3	3	3 hours
3	17EEEC303	OS & Embedded Systems	3	0	0	50	50	100	3	3	3 hours
4	20EEEC301	Digital Signal Processing	3	0	0	50	50	100	3	3	3 hours
5	18EEEC301	Linear Integrated Circuits	3	0	0	50	50	100	3	3	3 hours
6	19EEEC301	Machine Learning	2	0	1	50	50	100	3	4	3 hours
7	17EEEP306	RTOS Lab	0	0	1	80	20	100	1	2	2 hours
8	19EEEP301	Machines Lab	0	0	1	80	20	100	1	2	2 hours
9	21EEEP301	Linear ICs and Control System Lab	0	0	1	80	20	100	1	2	2 hours
10	17EEEW301	Mini project	0	0	3	50	50	100	3	6	2 hours
TOTAL			17	0	7				24	31	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0

Curriculum Structure for the 2019-23 batch

Semester: VI

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	21EEEC302	Power System Modeling Operation & Control	3	0	0	50	50	100	3	3	3 hours
2	17EEEC307	Automotive Electronics	3	0	0	50	50	100	3	3	3 hours
3	19EEEC303	Object Oriented Programming using C++	2	0	1	50	50	100	3	3	3 hours
4	19EEEE301	Program Elective 1 CMOS VLSI Circuits	3	0	0	50	50	100	3	3	3 hours
5	19EEEE302 18EEEE302	Program Elective 2 Battery Management Systems Modeling and Analysis of Hybrid Electrical Energy Systems	3	0	0	50	50	100	3	3	3 hours
6	16EHSC301	PA & LR	3	0	0	50	50	100	3	2	3 hours
7	20EEEP301	Power Electronics & Drives Lab	0	0	1	80	20	100	1	2	2 hours
8	17EEEP305	Automotive Electronics Lab	0	0	1	80	20	100	1	2	2 hours
9	17EEEW302	Minor Project	0	0	6	50	50	100	6	12	2 hours
			17	0	9				26	33	


ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0
	Curriculum Content- Course wise 2019-23 Batch		

Curriculum Structure for the year 2019-23 batch


Semester: VII

Sl.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	17EEEC401	Switched Mode Power Converters	3	0	0	50	50	100	3	3	3 hours
2	21EEEE402	Program Elective 3 AUTOSAR	3	0	0	50	50	100	3	3	3 hours
3	20EEEE401	Program Elective 4 Traction system for Electric Vehicles	3	0	0	50	50	100	3	3	3 hours
	20EEEE402	Powertrain Control Laboratory	0	0	3	80	20	100	3	6	2 hours
4	17EEEE405	Program Elective 5 Smart Grid Technologies	3	0	0	50	50	100	3	3	3 hours
	19EEEE401	Flexible AC Transmission Systems	3	0	0	50	50	100	3	3	3 hours
5	15EHSA401	Constitution of India, Professional Ethics and Environmental Studies	0	0	0	50	50	100	0	2	3 hours
6	19EEEP401	Power System Simulation Lab	0	0	1	80	20	100	1	2	2 hours
7	20EEEP401	Relay and High Voltage Engineering lab	0	0	2	80	20	100	2	4	2 hours
8	21EEEW401	Senior Design Project	0	0	6	50	50	100	6	12	2 hours
			12	0	09				21	32	

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0
Curriculum Content- Course wise 2019-23 Batch			

- **17EEEE490 – RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) – (0-0-6)**
- **21EEEE491 – INSTITUTIONAL RESEARCH PROJECT (IRP) – (0-0-6)**
- **22EEEE493 – SPONSORED RESEARCH PROJECT (SRP) – (0-0-6)**

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0
	Curriculum Content- Course wise 2019-23 Batch		

Curriculum Structure for the 2019-23 batch

Semester: VIII


Sl.No	Course code	Course Title		Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
				L	T	P	ISA	ESA	Sub total			
1	19EEEE402	Embedded Linux	18EEEI493 Internship - Training (0-0-6)	0	0	3	50	50	100	3	4	2 hours
2	17EEEO402	Artificial Intelligence		3	0	0	50	50	100	3	3	3 hours
3	21EEEW402	Capstone Project	20EEEW494 Internship-Project (0-0-11)	0	0	11	50	50	100	11	22	2 hours
				3	0	14				17	29	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0

Program Electives					
Vertical -1 (Embedded Systems)		Vertical -2 (e - Mobility)		Vertical -3 (Modern Power and Energy Systems)	
Courses	sem	Courses	sem	Courses	sem
CMOS & VLSI	6 th	Battery Management Systems	6 th	Modelling and Analysis of Hybrid Electrical Energy Systems	6 th
AUTOSAR	7 th /8 th	Traction system for Electric Vehicles	7 th /8 th	Smart Grid Technologies	7 th /8 th
Embedded Linux	7 th /8 th	Powertrain Control Laboratory	7 th /8 th	Flexible AC Transmission Systems	7 th /8 th

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		


Curriculum Structure for the 2020-24 batch

Semester: III

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB203 / 15EMAB232	Integral Transforms and Statistics / Calculus and Integral Transforms	4	0	0	50	50	100	4	4	3 hours
2	19EEEC201	Circuit Analysis	4	0	0	50	50	100	4	4	3 hours
3	15EEEC202	Analog Electronic Circuits	4	0	0	50	50	100	4	4	3 hours
4	19EEEC203	Digital Circuits	4	0	0	50	50	100	4	4	3 hours
5	19EEEC202	Electrical Power Generation, Transmission & Distribution	3	0	0	50	50	100	3	3	3 hours
6	15EEEP201	Microcontroller Architecture & Programming	0	1	1	80	20	100	2	4	2 hours
7	15EEEP202	Analog Electronics Laboratory	0	0	1	80	20	100	1	2	2 hours
8	15EEEP203	Digital Circuits Laboratory	0	0	1	80	20	100	1	2	2 hours
TOTAL			15	01	03				23	27	

- C programming 18EEEF201 0-0-2

ISA: In-semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2020-24 batch

Semester: IV

Sr.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	15EMAB208 / 15EMAB242	Linear Algebra and Partial differential equations / Vector calculus and differential equations	4	0	0	50	50	100	4	4	3 hours
2	19EEEC204	Electrical Machines	4	0	0	50	50	100	4	4	3 hours
3	17EEEC204	Linear Control Systems	3	0	0	50	50	100	3	3	3 hours
4	15EEEC207	ARM Processor & Applications	3	0	0	50	50	100	3	3	3 hours
5	19EEEC205	Signals & Systems	3	0	0	50	50	100	3	3	3 hours
6	20EEEC201	Power Electronics	3	0	0	50	50	100	3	3	3 hours
7	15EEEP205	ARM Microcontroller Lab	0	0	1	80	20	100	1	2	2 hours
8	18EEEP203	Digital System Design using Verilog	0	0	2	80	20	100	2	4	2 hours
TOTAL			20	0	3				23	26	

ISA: In-semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the year 2020-24 batch

Semester: V

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	17EEEC302	Power System Analysis & Stability	3	0	0	50	50	100	3	3	3 hours
2	21EEEC301	Electric Drives & Control	3	0	0	50	50	100	3	3	3 hours
3	17EEEC303	OS & Embedded Systems	3	0	0	50	50	100	3	3	3 hours
4	20EEEC301	Digital Signal Processing	3	0	0	50	50	100	3	3	3 hours
5	18EEEC301	Linear Integrated Circuits	3	0	0	50	50	100	3	3	3 hours
6	19EEEC301	Machine Learning	2	0	1	50	50	100	3	4	3 hours
7	17EEEP306	RTOS Lab	0	0	1	80	20	100	1	2	2 hours
8	19EEEP301	Machines Lab	0	0	1	80	20	100	1	2	2 hours
9	21EEEP301	Linear ICs and Control System Lab	0	0	1	80	20	100	1	2	2 hours
10	17EEEW301	Mini project	0	0	3	50	50	100	3	6	2 hours
TOTAL			17	0	7				24	29	

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2020-24 batch

Semester: VI

Sl. No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	21EEEC302	Power System Modeling Operation & Control	3	0	0	50	50	100	3	3	3 hours
2	17EEEC307	Automotive Electronics	3	0	0	50	50	100	3	3	3 hours
3	19EEEC303	Object Oriented Programming using C++	2	0	1	50	50	100	3	3	3 hours
4	19EEEE301	Program Elective 1 CMOS VLSI Circuits	3	0	0	50	50	100	3	3	3 hours
5	19EEEE302 18EEEE302	Program Elective 2 Battery Management Systems Modeling and Analysis of Hybrid Electrical Energy Systems	3	0	0	50	50	100	3	3	3 hours
6	16EHSC301	PA & LR	3	0	0	50	50	100	3	2	3 hours
7	20EEEP301	Power Electronics Drives Lab	0	0	1	80	20	100	1	2	2 hours
8	17EEEP305	Automotive Electronics Lab	0	0	1	80	20	100	1	2	2 hours
9	17EEEW302	Minor Project	0	0	6	50	20	100	6	12	2 hours
			17	0	9				26	33	


ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008	Document #: FMCD2005	Rev: 1.0			
				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the year 2020-24 batch

Semester: VII

Sl.No	Course code	Course Title	Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
			L	T	P	ISA	ESA	Sub total			
1	17EEEC401	Switched Mode Power Converters	3	0	0	50	50	100	3	3	3 hours
2	21EEEE402	Program Elective 3 AUTOSAR	3	0	0	50	50	100	3	3	3 hours
3	20EEEE401	Program Elective 4 Traction system for Electric Vehicles	3	0	0	50	50	100	3	3	3 hours
	20EEEE402	Powertrain Control Laboratory	0	0	3	80	20	100	3	6	2 hours
4	17EEEE405	Program Elective 5 Smart Grid Technologies	3	0	0	50	50	100	3	3	3 hours
	19EEEE401	Flexible AC Transmission Systems	3	0	0	50	50	100	3	3	3 hours
5	15EHSA401	Constitution of India, Professional Ethics and Environmental Studies	0	0	0	50	50	100	0	2	3 hours
6	19EEEP401	Power System Simulation Lab	0	0	1	80	20	100	1	2	2 hours
7	20EEEP401	Relay and High Voltage Engineering lab	0	0	2	80	20	100	2	4	2 hours
8	21EEEW401	Senior Design Project	0	0	6	50	50	100	6	12	2 hours
			12	0	09				21	35	


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Department of Electrical & Electronics Engineering			
Curriculum Structure with Content- Course wise			

17EEEE490 – RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) – (0-0-6)

21EEEE491 – INSTITUTIONAL RESEARCH PROJECT (IRP) – (0-0-6)

22EEEE493 – SPONSORED RESEARCH PROJECT (SRP) – (0-0-6)

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical


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				Department of Electrical & Electronics Engineering		
				Curriculum Structure with Content- Course wise		

Curriculum Structure for the 2020-24 batch

Semester: VIII

Sl.No	Course code	Course Title		Period			Evaluation scheme			Credit (L+T+P)	Contact Hours	Exam Duration
				L	T	P	ISA	ESA	Sub total			
1	19EEEE402	Embedded Linux	18EEEE493	0	0	3	50	50	100	3	4	3 hours
2	17EEEE0402	Artificial Intelligence	Internship - Training (0-0-6)	3	0	0	50	50	100	3	3	3 hours
3	21EEEEW402	Capstone Project	20EEEEW494 Internship- Project (0-0-11)	0	0	11	50	50	100	11	22	3 hours
				3	0	14				17	29	

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 KLE Technological University Creating Value Leveraging Knowledge	FORM ISO 9001: 2008 – BVBCET Department of Electrical & Electronics Engineering	Document #: FMCD2005	Rev: 1.0

Program Electives					
Vertical -1 (Embedded Systems)		Vertical -2 (e - Mobility)		Vertical -3 (Modern Power and Energy Systems)	
Courses	sem	Courses	sem	Courses	sem
CMOS & VLSI	6 th	Battery Management Systems	6 th	Modelling and Analysis of Hybrid Electrical Energy Systems	6 th
AUTOSAR	7 th /8 th	Traction system for Electric Vehicles	7 th /8 th	Smart Grid Technologies	7 th /8 th
Embedded Linux	7 th /8 th	Powertrain Control Laboratory	7 th /8 th	Flexible AC Transmission Systems	7 th /8 th

ISA: In-semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical