



FORM
ISO 9001: 2008– KLETECH
School of Electronics and
Communication Engineering

Document #: FMCD2004

Rev: 1.0

Title: Curriculum structure semester wise
VLSI Design & Embedded Systems


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Year: 2019-21

Semester: I Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1.	18EVEC701	Data Structures using C	Core 1	0-0-3	3	6	80	20	100	2 hours
2.	17EVEC702	Analog and Digital Circuits	Core 2	2-0-1	3	4	50	50	100	3 hours
3.	17EVEC704	CMOS VLSI Design	Core 3	4-0-1	5	6	50	50	100	3 hours
4.	17EVEC710	Advanced Digital Logic Design	Core 4	0-0-2	2	4	100	00	100	3 hours
5.	18EVEC708	Machine Learning	Core 5	2-0-1	3	4	50	50	100	3 hours
6.	17EVEC705	RISC Architectures and Programming	Core 6	4-0-1	5	6	50	50	100	3 hours
7.	17EVEC707	Electronic System Design	Core 7	0-0-3	3	6	100	00	100	3 hours
TOTAL				12-0-12	24	33	480	220	700	

ISA: Continuous Internal Evaluation ESA: Semester End Examination L: Lecture T: Tutorials P: Practical


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Year: 2019-21

Semester: II Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1.	15EHSC701	Mathematical Thinking and Logical Reasoning	Core 8	3-0-0	3	3	50	50	100	3 hours
2.	19EVEC701	Automotive Electronics and Communication	Core 9	3-0-1	4	5	50	50	100	3 hours
3.	19EVEC702	Real Time Embedded Systems	Core 10	3-0-1	4	5	50	50	100	3 hours
4.	19EVEC703	Advanced Digital logic Verification	Core 11	0-0-3	3	6	100	00	100	3 hours
5.	19EVEC704	Analog & Mixed Mode VLSI Circuits	Core 12	3-0-0	3	3	50	50	100	3 hours
6.	17EVEE701	Image & Video Processing	Elective 1	2-0-1	3	4	50	50	100	3 hours
	19EVEE701	MEMS								
	19EVEE702	System on Chip								
	19EVEE703	ASIC Design								
	19EVEE704	Testing & IC Characterization								
7.	17EVEE703	Standard Cell Design & Layout	Elective 2	2-0-1	3	4	50	50	100	3 hours
	19EVEE705	Low Power VLSI Circuits								
	19EVEE706	Internet of Things								
	19EVEE707	AUTOSAR and Infotainment								
8.	19EVEW701	Mini Project	Core 13	0-0-3	3	6	50	50	100	3 hours
TOTAL				16-0-10	26	36	450	350	800	

 <p>KLE TECH. CREATING VALUE LEVERAGING KNOWLEDGE</p>	<p align="center">FORM</p> <p align="center">ISO 9001: 2008– KLETECH</p> <p align="center">School of Electronics and Communication Engineering</p>	<p align="center">Document #: FMCD2004</p>	<p align="center">Rev: 1.0</p>
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Semester: III Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1.	17EVEI801	Internship/ Mini Project	Core 14	0-0-8	8	16	50	50	100	3 hours
2.	17EVEW801	Project Phase I / Minor project	Core 15	0-0-10	10	20	50	50	100	3 hours
TOTAL				0-0-18	18	36	100	100	200	

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Year: 2019-21

Semester: IV Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	17EVEW 802	Project Phase II / Major Project	Core 16	0-0-20	20	40	50	100	150	3 hours
TOTAL				0-0-20	20	40	50	100	150	

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Year: 2020-22

Semester: I Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1.	18EVEC701	Data Structures using C	Core 1	0-0-3	3	6	80	20	100	2 hours
2.	20EVEC702	Analog Circuits	Core 2	2-0-1	3	4	50	50	100	3 hours
3.	17EVEC704	CMOS VLSI Design	Core 3	4-0-1	5	6	50	50	100	3 hours
4.	17EVEC710	Advanced Digital Logic Design	Core 4	0-0-2	2	4	100	00	100	3 hours
5.	18EVEC708	Machine Learning	Core 5	2-0-1	3	4	50	50	100	3 hours
6.	17EVEC705	RISC Architectures and Programming	Core 6	4-0-1	5	6	50	50	100	3 hours
7.	17EVEC707	Electronic System Design	Core 7	0-0-3	3	6	100	00	100	3 hours
TOTAL				12-0-12	24	33	480	220	700	

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Year: 2020-22

Semester: II Semester M.Tech.

	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1.	15EHSC701	Mathematical Thinking and Logical Reasoning	Core 8	3-0-0	3	3	50	50	100	3 hours
2.	19EVEC701	Automotive Electronics and Communication	Core 9	3-0-1	4	5	50	50	100	3 hours
3.	19EVEC702	Real Time Embedded Systems	Core 10	3-0-1	4	5	50	50	100	3 hours
4.	19EVEC703	Advanced Digital logic Verification	Core 11	0-0-3	3	6	100	00	100	3 hours
5.	19EVEC704	Analog & Mixed Mode VLSI Circuits	Core 12	3-0-0	3	3	50	50	100	3 hours
6.	17EVEE701	Image & Video Processing	Elective 1	2-0-1	3	4	50	50	100	3 hours
	19EVEE701	MEMS								
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	19EVEE703	ASIC Design								
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7.	17EVEE703	Standard Cell Design & Layout	Elective 2	2-0-1	3	4	50	50	100	3 hours
	19EVEE705	Low Power VLSI Circuits								
	19EVEE706	Internet of Things								
	19EVEE707	AUTOSAR and Infotainment								
8.	19EVEW701	Mini Project	Core 13	0-0-3	3	6	50	50	100	3 hours
TOTAL				16-0-10	26	36	450	350	800	

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