



Semester: III

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
----	15EMAB231	Calculus & Integral Transforms (Maths for Diploma Students)	BS	4-0-0	4	4	50	50	100	3 hours
1	15EMAB201	Statistics and Integral Transforms								
2	15EMEF201	Mechanics of Materials	ES	3-1-0	4	5	50	50	100	3 hours
3	15EMEC201	Manufacturing Processes	PSC	4-0-0	4	4	50	50	100	3 hours
4	15EMEC202	Engineering Thermodynamics	PSC	3-0-0	3	3	50	50	100	3 hours
5	19EMEC201	Control Systems	PSC	2-1-0	3	4	50	50	100	3 hours
6	16EMEP201	Manufacturing Processes Lab	PSC	0-0-1	1	2	80	20	100	2 hours
7	19EMEP201	Control Systems Lab	PSC	0-0-2	2	4	80	20	100	2 hours
8	18EMEP203	Machine Drawing Lab	PSC	0-0-1	1	2	80	20	100	2 hours
TOTAL				16-2-4	22	28				

ISA: In Semester Assessment, **ESA:** End Semester Assessment, **L:** Lecture, **T:** Tutorials, **P:** Practical.

BS: Basic Science, **ES:** Engineering Science, **PC:** Program Core



REGISTRAR
KLE Technological University
HUBBALLI-580 031



FORM
ISO 9001: 2008– BVBCET
 Department of Mechanical Engineering

Document #: FMCD2004

Rev: 1.0

Title: Curriculum structure semester wise

Page 2 of 4

Year: 2018-22

Semester: IV

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
----	15EMAB241	Vector Calculus & Differential Equations(Diploma Students)	BS	4-0-0	4	4	50	50	100	3 hours
1	18EMAB206	Numerical Methods and Partial Differential Equations	BS	3-0-2	5	7	50	50	100	3 hours
2	15EMEC203	Fundamentals of Machine Design	PSC	3-1-0	4	5	50	50	100	3 hours
3	15EMEC204	Machines & Mechanisms	PSC	4-0-0	4	4	50	50	100	3 hours
4	15EMEF202	Engineering Materials	ES	4-0-0	4	4	50	50	100	3 hours
5	19EMEC202	Mechatronics	PSC	2-0-0	2	2	50	50	100	3 hours
6	18EMEP201	Manufacturing Processes-II Lab	PSC	0-0-2	2	4	80	20	100	2 hours
7	15EMEP204	Machines & Mechanisms Lab	PSC	0-0-1	1	2	80	20	100	2 hours
8	15EMEP202	Engineering Materials Lab.	PSC	0-0-1	1	2	80	20	100	2 hours
9	19EMEP202	Mechatronics Lab	PSC	0-0-2	2	4	80	20	100	2 hours
TOTAL				16-1-8	25	34				

ISA: In Semester Assessment,

ESA: End Semester Assessment,

L: Lecture,

T: Tutorials,

P: Practical.

BS: Basic Science,

ES: Engineering Science,

PSC: Program Specific Core

REGISTRAR
 KLE Technological University
 HUBBALLI-580 031



Semester: V

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
-	19EMAB301	Numerical methods and Statistics (Diploma Students)	BS	3-0-1	4	4	50	50	100	3 hours
1	15EMEC301	Fluid Mechanics & Hydraulic Machines	PSC	4-0-0	4	4	50	50	100	3 hours
2	15EMEC304	Design of Machine Elements	PSC	3-1-0	4	5	50	50	100	3 hours
3	19EMEC301	Finite Element Methods	PSC	3-0-0	3	3	50	50	100	3 hours
4	15EMEE3XX	Program Elective - 1	PE	----	3	3	50	50	100	3 hours
5	19EMEP301	CAD Modeling & PLM Lab	PSC	2-0-2	4	6	80	20	100	2 hours
6	15EMEP303	Automation Lab	PSC	0-0-2	2	4	80	20	100	2 hours
7	19EMEP302	FEM Lab	PSC	0-0-1	1	2	80	20	100	2 hours
8	15EMEW301	Mini Project	PRJ	0-0-3	3	6	50	50	100	3 hours
					24					

ISA: In Semester Assessment, **ESA:** End Semester Assessment, **L:** Lecture, **T:** Tutorials, **P:** Practical. **PSC:** Program Specific Core, **PRJ:** Project work
PE: Program Elective


 REGISTRAR
 KLE Technological University
 HUBBALLI-580 031





Semester: VI

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	16EHSC301	Professional Aptitude & Logical Reasoning	PSC	3-0-0	3	3	50	50	100	3 hours
2	15EMEC305	Heat and Mass Transfer	PSC	3-0-0	3	3	50	50	100	3 hours
3	15EMEC302	Metrology and Quality Engineering	PSC	4-0-0	4	4	50	50	100	3 hours
4	15EMEE3XX	Program Elective - 2	PE	----	3	3	50	50	100	3 hours
5	15EMEE3XX	Program Elective - 3	PE	----	3	3	50	50	100	3 hours
6	15EMEP301	Metrology and Quality Engineering Lab	PSC	0-0-1	1	2	80	20	100	2 hours
7	18EMEW301	Minor Project	PRJ	0-0-6	6	6	50	50	100	2 hours
					23					

ISA: In Semester Assessment, **ESA:** End Semester Assessment, **L:** Lecture, **T:** Tutorials, **P:** Practical. **PSC:** Program Specific Core, **PRJ:** Project work
PE: Program Elective

Design Electives	Product Design Electives	Manufacturing Electives	Thermal Electives	CAE Electives	PLM Electives	E – Mobility Electives	Machine Learning
Mechanical Vibration (15EMEE301)	Product Innovation (15EMEE304)	Advanced Machining Processes (15EMEE305)	Turbo Machines (18EMEE303)	Advanced CAE – I (18EMEE301) (0-0-3) (80:20)	Programming (18EMEE302) (0-0-3) (80:20)	Vehicle Structure and Design Optimization (19EMEE301)	Advanced Statistics and Machine Learning (19EMEE302)
Failure Analysis in Design (15EMEE302)	Product Design & Development (19EMEE303)	Computer Integrated Manufacturing (15EMEE306)	HVAC Systems (15EMEE308)	Advanced CAE – II (19EMEE304) (0-0-3) (80:20)	PLM Technical (19EMEE305) (0-0-3) (80:20)	Dynamics & Durability of Vehicles (19EMEE306)	Machine Learning Applications (19EMEE307)
Piping systems Design (15EMEE303)							


REGISTRAR
KLE Technological University
HUBBALLI-560 031

