



SCHOOL OF MECHANICAL ENGINEERING

Curriculum for Applied Learning

M.Tech. (CAD/ CAM) – Version 1.10

(2017-2018 Batch onwards)

UNIVERSITY CORE

COURSE	CODE	COURES TITLE	L	T	P	J	C
MAT	MAT 5005	Advanced Mathematical Methods	3	0	0	0	3
FLC	ENG 5001 & ENG 5002 (or)	Technical English I and Technical English II	0	0	2	4	2
	FRE 5001 (or) GRE 5001	(or) Foreign Language	2	0	0	0	2
STS	5001 & 5002	Soft skills	-	-	-	-	2
SET	5001 & 5002	SET Projects	-	-	-	-	4
MEE	6099	Master's Thesis	-	-	-	-	16
Total Credits			27				

UNIVERSITY ELECTIVES

COURSE	CODE	COURES TITLE	L	T	P	J	C
		University Elective –I	3	0	0	0	3
		University Elective –II	3	0	0	0	3
Total Credits			6				

PROGRAMME CORE

COURSE	CODE	COURSE TITLE	L	T	P	J	C
MEE	5013	Advanced Mechanics of Solids	2	2	0	0	3
MEE	5022	Applied Materials Engineering	3	0	0	0	3
MEE	5014	Computer Graphics and Geometric Modelling	2	0	2	0	3
MEE	5015	Finite Element Methods	2	2	2	0	4
MEE	5016	Integrated Manufacturing Systems	2	0	2	0	3
MEE	5017	Advanced Vibration Engineering	2	2	0	0	3
Total Credits			19				

PROGRAMME ELECTIVES

COURSE	CODE	COURSE TITLE	L	T	P	J	C
MEE	6030	Advanced Finite Element Methods	2	0	0	4	3
MEE	6031	Computational Fluid Dynamics	2	0	2	0	3
MEE	5023	Design For Manufacture And Assembly	3	0	0	0	3
MEE	6033	Product Design And Life Cycle Management	2	0	0	4	3
MEE	6034	Fracture Mechanics	3	0	0	0	3
MEE	6035	Manufacturing and Mechanics Of Composites Materials	3	0	0	0	3
MEE	6012	Design and Analysis of Experiments	2	2	0	4	4
MEE	6036	Computational and Experimental Vibration Analysis And Control	2	0	2	0	3
MEE	6037	Optimisation Methods	3	0	0	0	3
MEE	6038	Design Thinking And Innovation	2	0	0	4	3
MEE	6039	Machine Fault Diagnostics	3	0	0	0	3
MEE	6040	Computer Aided Process Planning	3	0	0	0	3
MEE	6015	Additive Manufacturing Technology	2	0	0	4	3
MEE	6041	CNC Technology and Programming	2	0	0	4	3
MEE	5024	Advanced Manufacturing Technology	2	0	0	4	3
MEE	6055	Statistics and Quality Management	2	0	0	4	3
MEE	5026	Vehicle Dynamics	2	1	0	4	4
MEE	6024	Vehicle Aerodynamics	3	0	0	0	3
MEE	6042	Industrial/Research Internship	0	0	0	8	2
Total Credits			18				

Credit Summary	Credits
Minimum number of credits for Qualifying degree	70
University Core	27
University Elective	06
Programme core	19
Programme Electives	18

