School of Mechanical Engineering Program Structure of B. Tech. Four Year Full Time Degree (Entry Batch 2018 Onwards)

विर	विज्ञानं ब्रह्म (Entry Datch 2018 Onwards)													
	T =	1 st Semester 2018-22	-						T =:	2 nd Semester				,
Sl. No.	Course Code	Course Title	L	Т	S/ P	С		Sl. No.	Course Code	Course Title	L	Т	S/ P	C
1.	MTL1012	Engineering Mathematics-I	3	0	0	3		1	MTL1026	Engineering Mathematics-II	3	0	0	3
2	ECL1010	Basic Electronics	3	0	2	4		2	ECP 1200	Engineering Graphics	0	0	4	2
3		Engineering Physics	3	0	2	4		3		PYTHON-I	1	0	4	3
4	ECL1020	Introduction to `C' Programming-	1	0	4	3		4	MEL1112	Materials Science and Engineering	3	0	2	4
5	LNL1411	Communication Skills	2	0	2	3		5	MEL1012	Engineering Mechanics	3	1	0	4
6	MEL1001	Introduction to Mechanical Engineering	1	0	0	1		6	PCL 1067	Discourse of Human Values –AICTE MC-HS	2	0	0	2
7		Engineering Workshop	0	0	2	1		7	LMP1142	Language Lab-I-HS	0	0	2	1
		Induction Program												
8		NSS (Non-Credit)-UGC		40	Hrs									
		Hes (Herr ereally elec			T		1							
Total	Credits	<u> </u>				19		To	tal Credits		1	l	1	19
						1		- 10	un Credits					1
		3 rd Semester				ı				4 th Semester				I.
Sl. No.	Course Code	Course Title	L	Т	S/ P	С		Sl. No	Course Code	Course Title	L	T	S/ P	С
1		Environmental Studies- AICTE	3	0	0	N C		1	MEL 2232	Fluid Machines	3	0	2	4
2	PCL2042	Introduction to Logic- AICTE	3	0	0	3		2	MEL 2212	Thermal Engineering	3	0	2	4
3	MEL2015	Kinematics of Machines	3	0	0	4		3	MEL 2113	Manufacturing Processes	3	0	2	4
4	MEL2231	Fluid Mechanics	3	0	2	4		4	MEL 2018	Dynamics of Machines	3	0	2	4
5	MEL2014	Strength of Materials	3	1	2	5		5	MEL 2017	Machine Design	3	1	0	4
6	MTL6066	Numerical Methods	3	1	0	4		6	MEL 2016	Mechanics of Materials	3	0	0	3
7	MEL1211	Thermodynamics	3	0	0	3		7		Constitutional of India- AICTE	2	0	0	2
							-							
Total	Credits			<u> </u>		23		Tota	l Credits	-			1	25
		5 th Semester								6 th Semester				•
SI. No	Course Code	Course Title	L	т	S /	С								
1	MEL3221	Heat and Mass Transfer	3	0	P	4	1	1		Open Elective-I	3	0	0	3
2	MEL3131	Industrial Engineering	3	0	0	3	1	2		School Elective –II	3	0	0	3
3	MEL3019	Design of Machine Elements	3	0	0	3		3	MEL3121	Metrology and Measurements	3	0	2	4
4	MEL3114	Machining Processes	3	0	0	3		4	MEL3222	Internal Combustion Engines	3	0	2	4
5	MEL3021	CAD/CAM	3	0	2	4		5	MEL3022	Mechanical Vibrations	3	1	2	4
6		School Elective –I	3	0	0	3	1	6	MEL2133	Operations Research	3	0	0	3
7		Finite Element Analysis	3	0	0	3	1							
		22 2 2	,	Ť	Ť	Ť	1							
								7	MED 4921	Minor Project- Projects				2
		Minor Project-I –				2				Advance CAD/CAM Lab	0	0	3	2
Total	Credits	<u> </u>	1	·		25	1	Tota	l Credits			l	 	25
_ 0 000														

7 th Semester								8 th Semester					
Sl. No.	Course Code	Course Title	L	Т	S / P	С	Sl. No.	Course Code	Course Title	L	Т	S/ P	С
1	ECC 4980	Summer Internship Evaluation-				2	1	ECD 4992 / ECC 4982	(Major Project + Open Elective-III) (9+3) / Internship (12)				12
2		Open Elective-II	3	0	0	3							
3	ECL4170	OFC (Compulsory)	3	0	2	4							
4	M EL 4223	Refrigeration and Air- conditioning	3	0	2	4							
5	MEL 4031	Automobile Engineering	3	0	2	4							
6		Disaster management – AICTE-MC	2	0	0	2							
7	MEC 4913	Colloquium	0	0	2	1							
8	MED 4921	Project- Phase-I	0	0	4	2							
Total Credits						22	Total	Credits	·				12

LIST OF SCHOOL ELECTIVES School Elective –I

Course	Course Title	L-T-P	Credits
Code			
MEE 3224	Power Plant Engineering	3-0-0	3
MEE 3134	Work Study Ergonomics	3-0-0	3
MEE 3122	Computer Integrated Manufacturing Systems	3-0-0	3
MEE 3024	Concurrent Engineering	3-0-0	3
MEE 3032	Industrial Automation	3-0-0	3
MEE 3233	Gas Dynamics and Jet Propulsion	3-0-0	3
MEE 3033	Control Systems	3-0-0	3

School Elective-II

Course	Course Title	L-T-P	Credits
Code			
MEE 4234	Computational Fluid Flow and Heat Transfer	3-0-0	3
MEE 4025	Design for Manufacturing and Assembly	3-0-0	3
MEE 4034	Environmental Science and Engineering	3-0-0	3
MEE 4141	Maintenance Engineering	3-0-0	3
MEE 4026	Mechanical System Design	3-0-0	3
	THE FUTURE OF THE AUTOMOBILE		
MEE 4027	Product Design & Developments	3-0-0	3
MEE 4035	Tool Design	3-0-0	3
MEE 4143	Total Quality Management	3-0-0	3
MEE 4235	Energy Management	3-0-0	3

Open Elective

Course Code	Course Title	L-T-P	Credits
	Industrial Psychology	3-0-0	3
	Artificial Intelligence	3-0-0	3
MEE 3225	Fuel Combustion and Pollution	3-0-0	3
MEE 4142	Injection Moulding and Mould Design	3-0-0	3
	INTRODUCTION TO SENSORS	3-0-0	3