



**School of Mechanical Engineering**  
**Program Structure of B. Tech. Four Year Full Time Degree**  
**2016-20 (Entry Batch 2016 Onwards)**

1 <sup>st</sup> Semester								2 <sup>nd</sup> Semester							
Sl. No.	AICTE Code	Course Code	Course Title	L	T	S/P	C	Sl. No.	AICTE Code	Course Code	Course Title	L	T	S/P	C
1		CSL 1029	Introduction to Programming with C	3	0	0	3	1		EEL 1021	Basic Electrical & Electronics Engineering	4	0	0	4
2		CSP 1029	Programming Lab	0	0	2	1	2		ECP 1021	Electrical & Electronics Lab	0	0	2	1
3		LNL 1141	Communication Skills	3	0	0	3	3		LNP 1142	Language Lab	0	0	2	1
4		MEL 1001	Introduction to Mechanical Engineering	1	0	0	1	4		MEL 1013	Machine Drawing	1	0	3	2.5
5		MEL 1011	Engineering Graphics	1	0	3	2.5	5		MEL 1112	Materials Science and Engineering	3	0	0	3
6		MEL 1012	Engineering Mechanics	3	1	0	4	6		MEL 1211	Thermodynamics	3	0	0	3
7		MEP 1111	Mechanical Workshop	0	0	3	1.5	7		MEP 1112	Materials Science & Engineering Lab	0	0	2	1
8		MTL 1012	Calculus & Linear Algebra	3	0	0	3	8		MTL 1022	Differential Equations & Vector Calculus	1	0	0	3
9		PCN 1010	NSS (Non-Credit)				0	9		PCL 1067	Discourse on Human Virtues	3	0	0	3
10		PHL 1011	Fundamentals of Physics	3	0	0	3	10		PCN 1010	NSS (Non-Credit)				0
11		PHP 1011	Physics Lab	0	0	2	1								
							<b>TOTAL</b>								
<b>Total Credits</b>							<b>23</b>	<b>Total Credits</b>							<b>21.5</b>

3 <sup>rd</sup> Semester								4 <sup>th</sup> Semester							
Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C	Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C
1		MEL 2014	Strength of Materials	3	2	0	4	1		BTL 2304	Environmental Studies (Non-Credit)	3	0	0	0
2		MEL 2015	Kinematics of Machines	3	2	0	4	2		MEL 2016	Mechanics of Materials	3	1	0	4
3		MEL 2113	Manufacturing Processes	3	1	0	3	3		MEL 2017	Machine Design	3	0	0	3
4		MEL 2132	Project Management	3	0	0	3	4		MEL 2018	Dynamics of Machines	3	0	0	3
5		MEL 2231	Fluid Mechanics	3	2	0	4	5		MEL 2133	Operations Research	0	0	3	3
6		MEP 2014	Strength of Materials Lab	0	0	2	1	6		MEL 2212	Thermal Engineering	3	0	0	3
7		MEP 2113	Machine Tool Lab	0	0	3	1.5	7		MEL 2232	Fluid Machines	3	1	0	4
8		MEP 2231	Fluid Mechanics Lab	0	0	2	1	8		MEP 2018	Theory of Machines Lab	0	0	2	1
9		MTL 2023	Integral Transforms & Complex Analysis	3	0	0	3	9		MEP 2212	Thermal Engineering Lab	0	0	2	1
10		PCL 2042	Introduction to Logic	3	0	0	3	10		MEP 2232	Fluid Machines Lab	0	0	2	1
11		PHL 1011	Fundamentals of Physics	3	0	0	3								
<b>Total Credits</b>							<b>30.5</b>	<b>Total Credits</b>							<b>23</b>

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5 <sup>th</sup> Semester								6 <sup>th</sup> Semester							
Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C	Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C
1		MEE 3122	Computer Integrated Manufacturing Systems	3	0	0	3	1		MED 3921	Minor Project				2
2		MEL 3019	Design of Machine Elements	3	0	0	3	2		MEE 3143	Quality Management	3	0	0	3
3		MEL 3020	Finite Element Analysis	3	0	0	3	3		MEL 3022	Mechanical Vibrations	3	0	2	4
4		MEL 3021	CAD/CAM	3	0	2	4	4		MEL 3121	Metrology & Measurements	3	0	2	4
5		MEL 3114	Machining Processes	3	0	0	3	5		MEL 3134	Mechanical System Design	3	0	0	3
6		MEL 3131	Industrial Engineering	3	0	0	3	6		MEL 3222	IC Engine	3	0	2	4
7		MEL 3221	Heat and Mass Transfer	3	0	2	4			MEP3020	Advanced CAD/CAM Lab	0	0	2	1
							23								24
<b>Total Credits</b>								<b>Total Credits</b>							

7 <sup>th</sup> Semester								8 <sup>th</sup> Semester							
Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C	Sl. No.	AICTE code	Course Code	Course Title	L	T	S/P	C
1		EME 2031	Waste to Energy	3	0	0	3	1		MED 4912	Major Project				15
2		MEC 4913	Colloquium	0	0	2	1								
3		MED 4921	Minor Project	0	0	4	2								
4		MEE 3224	Power Plant Engineering	3	0	0	3								
5		MEL 4031	Automobile Engineering	3	0	2	4								
		MEL 4223	Refrigeration and Air Conditioning	3	0	2	4								
<b>Total Credits</b>							17	<b>Total Credits</b>							15

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