

## B.Tech Curriculum - Mechanical Engineering From Academic Year 2018-19

### Semester - I

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical & Theoretical Chemistry/ Organic & Inorganic Chemistry	SCY	2-1-0-3
3.	ID1101	Concepts in Engineering & Design	BET	1-0-2-2
4.	MA1101	Calculus	SMA	3-1-0-4
5.	PH1101	Introduction to Classical Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Lab/Chemistry Lab	SPH/SCY	0-0-3-2
7.	EA1103	Workshop-I	BES	0-0-3-2
8.	HS1101/ HS1103/ HS1105/ HS1107	Language Course (Pass/Fail)	HPF	2-0-0-2
<b>Total</b>				<b>22/21</b>

### Semester - II

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES1101/ EA1101	Computational Engineering/ Engineering Drawing	BET/ BES	2-0-3-4 1-0-3-3
2.	CY1101/ CY1202	Physical & Theoretical Chemistry Organic & Inorganic Chemistry	SCY	2-1-0-3
3.	ES2101	Engineering Mechanics	BET	3-1-0-4
4.	MA1202	Differential Equations and Matrices	SMA	3-1-0-4
5.	PH1202	Introduction to Electrodynamics and Quantum Mechanics	SPH	2-1-0-3
6.	PH1103/CY1204	Physics Lab/Chemistry Lab	SPH/SCY	0-0-3-2
7.	EA1202	Workshop-II	BES	0-0-3-2
<b>Total</b>				<b>21/22</b>

### Semester - III

S.No	Course No	Course Name	Category	L-T-P-C
1.	BS2101	Life Sciences	SLS	2-0-0-2
2.	ES1201	Basic Electrical Engineering	BET	3-0-0-3
3.	ME2101	Thermodynamics	PMT	2-1-0-3
4.	ME2103	Strength of Materials	PMT	2-1-2-4
5.	ME2105	Material Science and Engineering	PMT	3-0-2-4
6.	MAE1	Mathematics Elective-1	SMA	3-0-0-3
7.	HSE1	Humanities Elective-1	HSS	3-0-0-3
<b>Total</b>				<b>22</b>

### Semester - IV

S.No	Course No	Course Name	Category	L-T-P-C
1.	ES2103	Ecology and Environment	BET	2-0-0-2
2.	ME2202	Fluid Mechanics and Hydraulic Machines	PMT	2-1-2-4
3.	ME2204	Manufacturing Technology	PMT	3-0-2-4
4.	ME2206	Kinematics and Dynamics of Machines	PMT	2-1-2-4
5.	MAE2	Mathematics Elective-2	SMA	3-0-0-3
6.	HSE2	Humanities Elective-2	HSS	3-0-0-3
<b>Total</b>				<b>20</b>

## Semester - V

S.No	Course No	Course Name	Category	L-T-P-C
1.	ME3101	Heat and Mass Transfer	PMT	3-1-2-5
2.	ME3103	Machining Processes	PMT	3-0-3-5
3.	ME3105	Design of Machine Elements	PMT	3-1-0-4
4.	ME3107	Mechanical Measurements and Metrology	PMT	3-0-2-4
5.	FRE1	Free Elective-1	FRE	3-0-0-3
<b>Total</b>				<b>21</b>

## Semester - VI

S.No	Course No	Course Name	Category	L-T-P-C
1.	ME3202	Applied Thermal Engineering	PMT	3-1-0-4
2.	ME3204	Vibrations and Control	PMT	3-0-2-4
3.	ME3292	Machine Drawing	PML	0-0-6-4
4.	DPE1	Department Elective-1	PMT	3-0-0-3
5.	FRE2	Free Elective-2	FRE	3-0-0-3
6.	HSE3	Humanities Elective-3	HSS	3-0-0-3
<b>Summer</b>				
7.	IT3202	Industrial/Research Internship	PIT	- - - 2
<b>Total</b>				<b>23</b>

## Semester - VII

S.No	Course No	Course Name	Category	L-T-P-C
1.	ME4101	Energy Conversion Systems	PMT	2-1-3-5
3	ME4103	Operations Research	PMT	2-1-0-3
3.	ME4150	Project Phase-I	PMP	- - - 3
4.	DPE2	Department Elective-2	PMT	3-0-0-3
5.	FRE3	Free Elective-3	FRE	3-0-0-3
6.	IL4101	Industrial Lecture	PIL	1-0-0-1
<b>Total</b>				<b>18</b>

## Semester - VIII

S.No	Course No	Course Name	Category	L-T-P-C
1.	ME4202	Mechatronics	PMT	3-0-2-4
2.	ME4204	Industrial Automation	PMT	3-0-0-3
3.	ME4250	Project Phase-II	PMP	- - - 6
4.	DPE3	Department Elective-3	PMT	3-0-0-3
5.	HS4202	Professional Ethics	HPE	2-0-0-2
<b>Total</b>				<b>18</b>

**Total Credits 165**