COURSE STRUCTURE OF B.TECH MECHANICAL ENGINEERING

SEMESTER I

Sl.No	Course Title	Course code	L	T	P	Credits
1.	Chemistry -I	CHY022C101	3	1	0	4
2	Chemistry Lab	CHY022C111	0	0	2	1
2	Mathematics-I	MAT022C101	3	1	0	4
3	Programming for problem solving	CSE022C104	3	0	2	4
4	Biology For Engineers	MEE022C103	3	0	0	3
5	Manufacturing Practice Workshop	MEE022C115	2	0	0	2
6	Universal Human Values	BHS022A101	2	0	0	2
7	Sports and Yoga/NSS/NCC	MEE022S117	0	0	2	1
Total Credit						21

SEMESTER II

Sl.No	Course Title	Course code	L	T	P	Credits
1.	Physics -I	PHY022C201	3	1	0	4
2	Physics Lab	PHY022C211	0	0	2	1
3	Mathematics-II	MAT022C201	3	1	0	4
4	Basic Electrical Engineering	CSE022C203	2	1	0	3
	Basic Electrical Engineering Lab	CSE022C213	0	0	2	1
5	Engineering Graphics & Design	CEE022C204	2	0	4	3
6	English For Technical Writing	CEN022A201	2	0	0	2
7	Design Thinking	COD022S216	0	0	2	1
8	IDEA LAB	MEE022S217	0	0	2	1
Total Credit						20

FIRST YEAR

		SEMESTER III					
	Sl.No	Course Title	Course code	L	T	P	Credits
	1.	Engineering Thermodynamics	MEE022C301	3	1	0	4
	2	Engineering Mechanics	MEE022C302	3	1	0	4
	3	Mechanics of Deformable Solids	MEE022C303	3	1	0	4
	4	MathematicsIII	MAT022C304	3	0	0	3
SEECOND YEAR	5	IKS-I	IKS022C305	2	0	0	2
	6	Basic Electronics Engineering	ECE022C306	3	1	0	4
	7	Machine Drawing Lab	MEE022C319	0	0	4	2
		Total Credit					23
	8	Honours (Optional)		3	0	0	3
		SEMESTER IV					
	Sl.No	Course Title	Course code	L	T	P	Credits
	1	Fluid Mechanics & Hydraulic Machines	MEE022C401	3	1	0	4
	2	Primary Manufacturing	MEE022C402	3	1	0	4
	3	Applied thermodynamics	MEE022C403	3	1	0	4
	4	Theory of Machines	MEE022C404	3	1	0	4
	5	Engineering Materials and Application	MEE022C405	3	1	0	4
	6	Fluid Mechanics Machines lab	MEE022C411	0	0	2	1
		Total Credit					21
	7	Honours (Optional)		3	0	0	3

SEMESTER V

Sl.No	Course Title	Course code	L	T	P	Credits
1.	Machine element and system design	MEE022C501	3	1	0	4
2	Manufacturing Process	MEE022C502	3	0	0	3
3	Measurements and Metrology	MEE022C503	3	0	2	4
4	Heat Transfer and Thermal Machines	MEE022C504	3	1	0	4
5	Heat Transfer Lab	MEE022C514	0	0	2	1
6	Robotics & Control	MEE022C506	3	1	0	4
7	Principles of Management	BSA022A401	3	0	0	3
Total Credit						**23**
	Honours (Optional)		**3**	**0**	**0**	**3**

SEMESTER VI

Sl.No	Course Title	Course code	L	T	P	Credits
1.	CAD/CAM	MEE022C601	3	0	2	4
2	Manufacturing Automation	MEE022C602	3	0	2	4
3	IC Engine	MEE022C603	3	0	0	3
4	Dynamics of Machinery	MEE022C604	3	0	0	3
5	Dynamics of Machinery Lab	MEE022C614	0	0	2	1
6	Production and Operation Management	MEE022C606	3	0	0	3
7	Engineering Project-1 (Seminar)	MEE022C617	0	0	4	2
Total Credit						**20**
7	**Honours (Optional) [to be applied through MOOCS]**		**3**	**0**	**0**	**3**

SEMESTER VII

THIRD YEAR

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Sl.No	Course Title	Course code	L	T	P	Credits
1.	Product Innovation & Entrepreneurship	MEE022C701	3	0	0	3
2	Finite Element Analysis (PE1)	MEE022C702	3	0	0	3
3	Renewable Energy Engineering (PE2)	MEE022C703	3	0	0	3
4	Additive Manufacturing (OE1)	MEE022C704	3	0	0	3
5	Composite Materials (OE2)	MEE022C705	3	0	0	3
6	Internship Evaluation (Seminar)	MEE022C706	0	0	10	5
7	Engineering Project-2 (Design & Analysis)	MEE022C717	0	0	10	5
	Total Credit					**25**
7	**Honours (Optional) [to be applied through MOOCS]**		**3**	**0**	**0**	**3**
	SEMESTER VIII					
Sl.No	Course Title	Course code	L	T	P	Credits
1	Computational Fluid Dynamics (PE 3)	MEE022C801	3	0	0	3
2	Refrigeration & Air Conditioning	MEE022C802	3	0	0	3
3	Automobile Engineering (OE 3)	MEE022C803	3	0	0	3
4	Engineering Project-3(Prototype)	MEE022C804	0	0	16	8
	Total Credit					**17**
5	**Honours (Optional)**		**3**	**0**	**0**	**3**
	TOTAL CREDITS (I, II, III, IV, V, VI, VII, VIII):					**170**