B.Tech. (Mechanical Engineering) 2020 Batch

COURSE COMPONENTS & CURRICULUM

	PROGRAM STRUCTURE		
S. No.	Category / Component		KITS
1	Basic Science courses	BSC	19
2	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.	ESC	16
3	Humanities and Social Sciences including Management courses	HSMC	18
4	Professional Core Courses	PCC	68
5	Professional Elective courses relevant to chosen specialization/branch	PEC	15
6	Open Course Titles – Electives from other technical and /or emerging Course Titles	OES	9
7	Project work, seminar and internship in industry or elsewhere	P	15
8	Mandatory Courses [Environment studies, Induction Programme, Indian Constitution, Value Education, etc.]	MC	0
9	Online Courses		5*
	Tota	l Credits	160+5*

^{*}The students shall earn 5 credits through online courses between 2nd and 7th semester (both inclusive)

COURSE COMPONENTS

Basic Science Courses (BSC)							
			Hours			Credit	
S.No	Code No.	Course Title	pe	per week		S	
			L	T	P	ъ	
1	20MA1003	Mathematics for Data Science and Machine	2	0	2	3	
		Learning		U		3	
2	20MA1004	Mathematical Modelling for Engineering	2	0	2	3	
		Problems		U		3	
3	20MA2002	Applied Computational Mathematics	2	0	2	3	
4	20MA2003	Simulation of Numerical Mathematics	2	0	2	3	
5	20CS2058	Basics of Data Analytics - R Programming	3	0	2	4	
		and Tableau	3	U	2	4	
6	20PH1020	Application of Engineering Materials	3	0	0	3	
			Total	Cre	dits	19	
		Engineering Science Courses (ESC)					
S.No	Code No.	Course Title	1	Hour	'S	Credit	
			pe	r we	eek		
			L	T	P	S	
1	20ME1002	Computer Aided Drafting Laboratory	0	0	4	2	
2	20CS1004	Applications of Python Programming	3	0	0	3	
3	20CS1005	Python Programming Laboratory	0	0	2	1	
4	20CS2057	Fundamentals of Web Design	2	0	2	3	
5	20EC2017	Media Laboratory	0	0	2	1	
6	20ME1001	Materials Engineering Laboratory	0	0	2	1	
7	20ME1004	Additive manufacturing Laboratory	0	0	2	1	

8	20EC2018	Fundamentals of Printed Circuit and Arduino	3	0	0	3
		Board Design				
9	20EC2019	Fundamentals of Printed Circuit and Arduino	0	0	2	1
		Board Design Lab				
			Total	Cre	dits	16
	Humanities	& Social Sciences Including Management C	ourses	(HS	SMC	()
			I	Ioui	'S	C . 124
S.No	Code No.	Course Title	per week	eek	Credit	
			L	T	P	S
Categ	ory-1	Humanities, Social Sciences and				8
		Management Courses				
1	20EN1001	English for Engineering and Technology /	2	0	0	2
	/19LN1001	German Language				
2	20ME1003	Soft skills	1	0	0	1
3	20ME1006	Professional Ethics	2	0	0	2
4	20ME2006	Engineering Economics and Operation	3	0	0	3
		Research				
Categ	ory-2	Entrepreneurship				10
1	20MS2003	Concept of Entrepreneurship	1	0	0	1
2	20MS2004	Entrepreneurship and Product Development	3	0	0	3
3	20MS2007	Business Plan	3	0	0	3
4	20MS2008	Artificial Intelligence for Business	3	0	0	3
			Total	Cre	dits	18

PROFESSIONAL CORE COURSES (PCC)								
S. No Code No.		Course Title	Hours per week			Credits		
			L	T	P			
1	19ME1003	Engineering Mechanics	3	0	0	3		
2	19ME2020	Drone Technology	3	0	0	3		
3	20ME1005	Fluid Power Control and Mechatronics	0	0	2	1		
		Laboratory						
4	20ME1007	3D Printing Technology	3	0	0	3		
5	20ME1008	Dynamics and Vibration Laboratory	0	0	2	1		
6	19ME2025	Thermodynamics	3	0	0	3		
7	20ME2016	Fluid Mechanics and Fluid Machines	2	1	0	3		
8	18ME2009	Fluid Mechanics Laboratory	0	0	2	1		
9	18ME2012	Strength of Materials	3	0	0	3		
10	18ME2013	Strength of Materials Laboratory	0	0	2	1		
11	20ME2003	Production and Metrology Laboratory	0	0	4	2		
12	18ME2016	Design of Machine Elements	3	0	0	3		
13	19ME2026	Applied Thermodynamics	3	0	0	3		
14	20ME2001	Engineering Design and Analysis Laboratory	0	0	4	2		
15	20ME2010	Kinematics and Dynamics of Machinery	3	1	0	4		
16	20ME2015	Applied Thermodynamics Laboratory	0	0	4	2		
17	20ME2014	Industrial Safety and Quality Standards	3	0	0	3		
18	20EE2001	Electric Vehicle Design	3	0	0	3		
19	20ME2002	CNC Programming	3	0	0	3		

20	10ME2024	Commenter Aided Memorforstonia a Lebenstern		0	2	1	
20	18ME2024	Computer Aided Manufacturing Laboratory	0	0	2	1	
21	18ME2011	Heat Transfer Laboratory	0	_		1	
22	18ME2010	Heat and Mass Transfer	3	0	0	3	
23	20ME2007	Automation of Product Life Cycle	3	0	0	3	
2.4	101/152040	Management	1		0	2	
24	18ME2040	Computational Fluid Dynamics	3	0	0	3	
25	20ME2005	Computational Fluid Dynamics Laboratory	0	0	2	1	
26	20ME2011	Finite Element Methods in Engineering	3	0	0	3	
27	20ME2004	Design of Medical Devices and Implants	3	0	0	3	
28	20ME2009	Intelligent Robotic System	3	0	0	3	
	DD O		otal	Crea	lits	68	
	PRO	FESSIONAL ELECTIVE COURSES (PEC)					
S.				Iour		Credits	
No	Code No.	Course Title	_	r we			
			L	T	P	_	
1	20ME2012	Internet of Things for Mechanical Systems	3	0	0	3	
2	20ME2017	Automotive materials and electronics	3	0	0	3	
3	18ME2074	Renewable Energy Technologies	3	0	0	3	
4	20ME2013	Sensor Technology for Machines	3	0	0	3	
5	20ME2008	Application of Machine Learning for	3	0	0	3	
		Mechanical Engineering Systems					
			otal	Cred	lits	15	
	1	OPEN ELECTIVE COURSES (OEC)	1				
S.				Hou		Credits	
No	Code No.	Course Title	_	per week			
			L	T	P	_	
1	18ME2072	Fluid Power Applications	3	0	0	3	
2	18ME2077	Fuel Cells Technology	3	0	0	3	
3	18ME2079	MEMS and Micro System Fabrication	3	0	0	3	
			otal	Crec	lits	9	
	1	PROJECT (P)					
				Hou	rs	Credits	
Sl.	Code No.	Course Title		per			
No		300220 2200	_	wee			
			L		P	_	
1	ITP2903 /	Industrial training -1 / Internship - 1	13	5 Day	ys	1	
	ISP2993					4	
2	ITP2904 /	Industrial training -2 / Internship - 2	13	5 Day	ys	1	
	ISP2994						
3	ITP2905 /	Industrial training -3 / Internship -3	13	5 Day	ys	1	
4	ISP2995	D : .	-			4.0	
4		Project	-	_	-	12	
4	ISP2995	*		- redi	- ts	12 15	
	ISP2995 20ME2999	MANDATORY COURSES	С			15	
S.	ISP2995	*	С	ours			
	ISP2995 20ME2999	MANDATORY COURSES	C H po	ours		15	
S.	ISP2995 20ME2999	MANDATORY COURSES	C H po	ours er eek	3	15	

1	18CH2001	Environmental Studies	3	0	0	0	
2	18MS2014	Constitution of India	2	0	0	0	
	Total Credits				0		
		ONLINE COURSES					
	The students shall earn 5 credits through online courses between 2 nd						
	and 7 th semester (both inclusive)						

SEMESTERWISE CURRICULUM

		SEMESTER- I				
S. No.	Course Code	Course Title	Hours per Week		Cred its	
110.	Code		L	T	P	
1	20PH1020	Application of Engineering Materials	3	0	0	
2	20MA1003	Mathematics for Data Science and Machine	2	0	2	3
		Learning				
3	20ME1001	Materials Engineering Laboratory	0	0	2	
4	20ME1002	Computer Aided Drafting Laboratory	0	0	4	
5	20CS1004	Applications of Python Programming	3	0	0	3
6	20CS1005	Python Programming Laboratory	0	0	2	1
7	20EC2017	Media Laboratory	0	0	2	1
8	20EN1001 /	English for Engineering and Technology /	2	0	0	2
	19LN1001	German Language				
9	20ME1003	Soft Skills	1	0	0	1
10	19ME1003	Engineering Mechanics	3	0	0	3
11		Mandatory Course - I	2	0	0	0
			To	tal C	s 20	
		SEMESTER- II				
C	Commo		Ho	urs	per	
S.	Course Code	Course Title	1	Weel	ζ.	Credits
No.	Code		L	T	P	
1	19ME2020	Drone Technology	3	0	0	3
2	20ME1004	Additive manufacturing Laboratory	0	0	2	1
3	20ME1005	Fluid Power Control and Mechatronics Laboratory	0	0	2	1
4	20ME1006	Professional Ethics	2	0	0	2
5	20ME1007	3D Printing Technology	3	0	0	3
6	20ME1008	Dynamics and Vibration Laboratory	^			
7		Dynamics and violation Laboratory	0	0	2	1
·	20MA1004	Mathematical Modelling for Engineering	2	0	2	3
-	20MA1004	Mathematical Modelling for Engineering Problems	2	0	2	3
8		Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino		_		
-	20MA1004	Mathematical Modelling for Engineering Problems	2	0	2	3
8	20MA1004 20EC2018	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design	3	0	0	3
8	20MA1004 20EC2018	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino	3	0	0	3
8	20MA1004 20EC2018 20EC2019	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	3 0	0 0 0	0 2 0	3 3 1
8	20MA1004 20EC2018 20EC2019	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	3 0	0 0 0	0 2 0	3 3 1 1
8 9 10	20MA1004 20EC2018 20EC2019 20MS2003	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	2 3 0 1 Total	0 0 0	2 0 2 0 dits	3 3 1 1
8 9 10 S.	20MA1004 20EC2018 20EC2019 20MS2003	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	2 3 0 1 Total	0 0 0 Cre	2 0 2 0 dits	3 3 1 1
8 9 10	20MA1004 20EC2018 20EC2019 20MS2003	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	2 3 0 1 Total	0 0 0 Cre	2 0 2 0 dits	3 3 1 1 19
8 9 10 S.	20MA1004 20EC2018 20EC2019 20MS2003	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship	2 3 0 1 Total	0 0 0 Cre	2 0 0 dits	3 3 1 1 19
8 9 10 S. No.	20MA1004 20EC2018 20EC2019 20MS2003 Course Code	Mathematical Modelling for Engineering Problems Fundamentals of Printed Circuit and Arduino Board Design Fundamentals of Printed Circuit and Arduino Board Design Lab Concept of Entrepreneurship SEMESTER- III Course Title	2 3 0 1 Total	0 0 0 Cre ours j	2 0 0 dits	3 3 1 1 1 19 Credits

	403.5770000	W			_		
4	18ME2009	Fluid Mechanics Laboratory	0	0	2	1	
5	18ME2012	Strength of Materials	3	0	0	3	
6	18ME2013	Strength of Materials Laboratory	0	0	2	1	
7	20ME2003	Production and Metrology Laboratory	0	0	4	2	
8	ITP2903 /	Industrial training -1 / Internship - 1	1:	5 Day	1		
	ISP2993			ı	ı		
9	20MS2004	Entrepreneurship and Product Development	3	0	0	3	
		CENTEGRED III	Total	20			
		SEMESTER- IV					
S.	Course	C TIM		Hours per Week		C 114	
No.	Code	Course Title				Credits	
1	201/4/2002	Simulation of Numerical Mathematics	<u>L</u> 2	T	P 2	3	
2	20MA2003	Design of Machine Elements	3	0	0	3	
3	18ME2016 19ME2026	Applied Thermodynamics	3	0	0	3	
4	20ME2001	Engineering Design and Analysis Laboratory	$\frac{3}{0}$	0	4	2	
5	20ME2001	Kinematics and Dynamics of Machinery	3	1	0	4	
6	20ME2015	Applied Thermodynamics Laboratory	$\frac{3}{0}$	0	4	2	
7	20ME2013	Industrial Safety and Quality Standards	3	0	0	3	
8	20EE2001	Electric Vehicle Design	3	0	0	3	
9	20EE2001	Mandatory Course - II	2	0	0	0	
7		Walldatory Course - II	Total	Ü	Ŭ	23	
		SEMESTER- V	Total	CIE	uits	23	
		SEVIESTER- V	Но	urs	ner		
S.	Course	Course Title		Weel		Credits	
No.	Code	Course Title	L	T	P		
1	20ME2002	CNC Programming	3	0	0	3	
2			0	0	2		
2 3	18ME2024	Computer Aided Manufacturing Laboratory		0	2 2	1	
2 3 4	18ME2024 18ME2011		0	0 0 0	2 2 0	1 1	
3	18ME2024	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer	0	0	2	1	
3 4	18ME2024 18ME2011 18ME2010	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management	0 0 3	0	2	1 1 3 3	
3 4 5	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics	0 0 3 3	0 0 0	2 0 0 0	1 1 3	
3 4 5 6 7	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory	0 0 3 3 3 0	0 0 0 0	2 0 0 0 2	1 1 3 3 3 1	
3 4 5 6	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering	0 0 3 3 3	0 0 0	2 0 0 0	1 1 3 3 3	
3 4 5 6 7 8	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design	0 0 3 3 3 0 3 2	0 0 0 0 0	2 0 0 2 0 2	1 1 3 3 3 1 3	
3 4 5 6 7 8	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering	0 0 3 3 3 0 3 2	0 0 0 0 0 0	2 0 0 2 0 2	1 1 3 3 3 1 3 3	
3 4 5 6 7 8	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 /	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design	0 0 3 3 3 0 3 2	0 0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys	1 1 3 3 3 1 3 3	
3 4 5 6 7 8	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 /	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design	0 0 3 3 3 0 3 2	0 0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys	1 1 3 3 3 1 3 1	
3 4 5 6 7 8 9 10	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2	0 0 3 3 3 0 3 2 1:	0 0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys	1 1 3 3 3 1 3 1	
3 4 5 6 7 8 9 10	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2	0 0 3 3 3 0 3 2 1:	0 0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys	1 1 3 3 3 1 3 1 22	
3 4 5 6 7 8 9 10	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title	0 0 3 3 0 3 2 1:	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys	1 1 3 3 3 1 3 1 22	
3 4 5 6 7 8 9 10 S. No.	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems	0 0 3 3 3 0 3 2 1:	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits	1 1 3 3 3 1 3 1 22 Credits	
3 4 5 6 7 8 9 10 S. No.	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics	0 0 3 3 0 3 2 1: Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits	1 1 3 3 3 1 3 1 22 Credits	
3 4 5 6 7 8 9 10 S. No.	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies	0 0 3 3 0 3 2 1: Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits	1 1 3 3 3 1 3 1 22 Credits	
3 4 5 6 7 8 9 10 S. No. 1 2 3	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-I	0 0 3 3 3 0 3 2 1: Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits	1 1 3 3 3 1 1 22 Credits 3 3 3 3 3	
3 4 5 6 7 8 9 10 S. No. 1 2 3 4 5	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-I Open Elective-II	0 0 3 3 3 0 3 2 1: Total L 3 3 3 3 3 3	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits P 0 0 0 0	1 1 3 3 3 1 3 1 22 Credits	
3 4 5 6 7 8 9 10 S. No. 1 2 3 4 5 6	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017 18ME2074	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-II Open Elective-III	0 0 3 3 3 0 3 2 1. Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits P 0 0 0 0 0	1 1 3 3 3 1 3 1 22 Credits 3 3 3 3 3 3 3 3 3	
3 4 5 6 7 8 9 10 S. No. 1 2 3 4 5	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017 18ME2074	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-I Open Elective-II	0 0 3 3 3 0 3 2 1. Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits P 0 0 0 0 0	1 1 3 3 3 1 3 1 22 Credits	
3 4 5 6 7 8 9 10 S. No. 1 2 3 4 5 6 7	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017 18ME2074 ITP2905 / ISP2995	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-I Open Elective-II Open Elective-III Industrial training -3 / Internship -3	0 0 3 3 3 0 3 2 1: Total L 3 3 3 3 3 3 3	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits P 0 0 0 0 0 0 0 ys	1 1 3 3 3 1 3 1 22 Credits 3 3 3 3 1	
3 4 5 6 7 8 9 10 S. No. 1 2 3 4 5 6	18ME2024 18ME2011 18ME2010 20ME2007 18ME2040 20ME2005 20ME2011 20CS2057 ITP2904 / ISP2994 Course Code 20ME2012 20ME2017 18ME2074	Computer Aided Manufacturing Laboratory Heat Transfer Laboratory Heat and Mass Transfer Automation of Product Life Cycle Management Computational Fluid Dynamics Computational Fluid Dynamics Laboratory Finite Element Methods in Engineering Fundamentals of Web Design Industrial training -2 / Internship - 2 SEMESTER- VI Course Title Internet of Things for Mechanical Systems Automotive materials and electronics Renewable Energy Technologies Open Elective-II Open Elective-III	0 0 3 3 3 0 3 2 1. Total	0 0 0 0 0 0 5 Day	2 0 0 2 0 2 ys dits P 0 0 0 0 0 0 0 0 ys	1 1 3 3 3 1 3 1 22 Credits 3 3 3 3 3 3 3 3 3	

SEMESTER- VII								
Sl. No.	Course Code	Course Title	Hours per Week		Week		Week	
110.	Couc		L	T	P			
1	20ME2004	Design of Medical Devices and Implants	3	0	0	3		
2	20ME2009	Intelligent Robotic System	3	0	0	3		
3	20ME2013	Sensor Technology for Machines	3	0	0	3		
4	20ME2008	Application of Machine Learning for Mechanical	3	0	0	3		
		Engineering Systems						
5	20ME2006	Engineering Economics and Operation Research	3	0	0	3		
6	20CS2058	Basics of Data Analytics - R programming and	3	0	2	4		
		Table au						
7	20MS2008	Artificial Intelligence for Business	3	0	0	3		
		,	Total	Cre	dits	22		
		SEMESTER- VIII						
S. No.	Course Code	Course Title	Hours per Week			Credits		
110.	Coue		L	T	P			
1	20ME2999	Project	-	-	-	12		
				T	otal	12		