			B.Tech Mechanical Engineering: 2018		
Sem	Category	Course Code	Course Title	LT	
1	Perspective	PSP1002	Joy of Engineering	1 0	
1	Skill	SKL1001	Communication and Presentation Skills	2 0	2 3
1	Foundation	ECE1005	Basic Electrical and Electronics Practice	2 0	2 3
1	Foundation	CSE1004	Computing Fundamentals & C	3 0	2 4
1	Foundation	CHE1001	Chemistry	2 0	2 3
1	Foundation	MTH1703	Mathematics-I	3 1	0 4
1	Foundation	PHY1003	Physics-1	2 1	2 4
			Semester Total		23
Sem	Category	Course Code	Course Title	LT	Credits
2	Perspective	PSP1707	World Civilizations	200	2
2	Skill	SKL1004	Writing Skills	2 0	
2	Foundation	CSE2009	Data Structures	3 0	
2	Foundation	PSP1001	Environmental Studies	3 0 0	
2	Foundation	MTH1702	Mathematics-II	3 1 (
2	Foundation	PHY1004	Physics-II	2 1	
2	Foundation	MEC1003	Workshop Practice	10	
	Touridation	111201005	Semester Total	1 0	23
Sem	Category	Course Code	Course Title	LT	
ST1	Internship	PS 121	Practice School -I		1
311	шстыпр	13121	Semester Total		1
Sem	Category	Course Code	Course Title	LT	
3	Skill	SKL1002	Etiquette and Conversational Skills	200	
3	Core	MEC2011	Manufacturing Process – I	3 0	
3	Foundation	MTH2702	Mathematics-III	3 1 (
3	Foundation	MEC1004	Engineering Drawing & Computer Aided Graphics	10	
3	core	MEC1704	Engineering Thermodynamics	3 1 (
3	Core	MEC2714	Engineering Mechanics	3 0	
3	Core	MEC2007	Engineering Materials	3 0	-
	Core	PIECEOO7	Semester Total	301	24
Sem	Category	Course Code	Course Title	LT	
4	Core	MEC3702	Kinematics of Machines	2 0	
4	Foundation	MEC1002	Emerging Material Science and Applications	3 0 (_
4	Core	MEC2008	Mechanics of Solids		2 4
4	Core	MEC2009	Computer Aided Design	2 0	-
4	Core	MEC2010	Applied Thermodynamics-I	2 0	
4	Core	MEC2011	Manufacturing Process – II	3 0	_
4	Core	MEC2012	Fluid Mechanics& Hydraulic Machines	3 0	
			Semester Total		24
Sem	Category	Course Code	Course Title	LT	
ST2	Internship	PS221	Practice School -II		6
\vdash					6
1			Semester Total		
Sem	Category	Course Code	Semester Total Course Title	LT	_
Sem 5	Category Perspective	Course Code PSP3701	Course Title		P Credits
_		PSP3701	Course Title Understanding Business	L T 2 0 0	P Credits
5	Perspective Core	PSP3701 MEC3704	Course Title Understanding Business Applied Thermodynamics-II	2 0 0	P Credits 0 2 0 4
5 5	Perspective	PSP3701	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines	20	P Credits 0 2 0 4 2 4
5 5 5	Perspective Core Core	PSP3701 MEC3704 MEC3008	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing	2 0 0 3 1 0 3 0 2	P Credits 0 2 0 4 2 4 2 4
5 5 5 5	Perspective Core Core Core	PSP3701 MEC3704 MEC3008 MEC3004	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines	2 0 0 3 1 0 3 0 3 3 0 3	P Credits 0 2 0 4 2 4 2 4 0 3
5 5 5 5	Perspective Core Core Core Core	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering	2 0 0 3 1 0 3 0 3 3 0 3 3 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4
5 5 5 5 5	Perspective Core Core Core Core Core	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer	2 0 0 3 1 0 3 0 3 3 0 0 3 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4
5 5 5 5 5	Perspective Core Core Core Core Core	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization	2 0 0 3 1 0 3 0 3 3 0 0 3 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 3 2 4 0 4 0 4
5 5 5 5 5 5	Perspective Core Core Core Core Core Core Core	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006 MEC3705	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization Semester Total	2 0 0 3 1 0 3 0 3 0 3 0 3 1 0 3 1 0 3 1 0 3 1 0 3 1 0 0 3 1 0 0 3 1 0 0 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 3 2 5 P Credits
5 5 5 5 5 5 5 5	Perspective Core Core Core Core Core Core Core Cor	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006 MEC3705 Course Code	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization Semester Total Course Title	2 0 0 3 1 0 3 0 3 0 3 0 3 1 0 4 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 4 2 5 P Credits
5 5 5 5 5 5 5 5 S	Perspective Core Core Core Core Core Core Core Perspective	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006 MEC3705 Course Code PSP2705	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization Semester Total Course Title Critical Reasoning & Systems Thinking	2 0 0 3 1 0 3 0 3 0 3 0 3 0 3 1 0 0 3 1 0 0 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 4 2 5 P Credits 0 2 0 2
5 5 5 5 5 5 5 Sem 6 6	Perspective Core Core Core Core Core Core Core Perspective Perspective	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006 MEC3705 Course Code PSP2705 PSP2701	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization Semester Total Course Title Critical Reasoning & Systems Thinking Emerging Life Science	2 0 0 3 1 0 3 0 3 3 0 3 3 0 3 3 1 0 L T 1 2 0 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 4 2 5 P Credits 0 2 1 4
5 5 5 5 5 5 5 S S S S S S S	Perspective Core Core Core Core Core Core Core Cor	PSP3701 MEC3704 MEC3008 MEC3004 MEC3703 MEC3006 MEC3705 Course Code PSP2705 PSP2701 MEC3009	Course Title Understanding Business Applied Thermodynamics-II Dynamics of Machines Machine Design & Drawing Industrial Engineering Heat and Mass Transfer Operations Research & Optimization Semester Total Course Title Critical Reasoning & Systems Thinking Emerging Life Science Manufacturing Process - III	2 0 0 3 1 0 3 0 3 3 0 3 3 0 3 3 1 0 L T 1 2 0 0 3 0	P Credits 0 2 0 4 2 4 2 4 0 3 2 4 0 4 0 25 P Credits 0 2 0 2 1 4 0 3

			Program Total				181
			Semester Total				18
8	Internship		Practice School-III				18
Sem	Category		Course Title	L	т	Р	Credits
			Semester Total				17
7	Open Elective			3	0	0	3
7	Core Elective			3	0	0	3
7	Core Elective			3	0	0	3
7	Perspective		Innovation & Entrepreneurship	2	0	0	2
7	Perspective		Good Citizenry	2	0	0	2
7	Perspective		Contemporary Challenges: Societal & Political	2		0	2
7	Skill		Selling, Negotiating, and Persuading Skills	2	0	0	2
Sem	Category		Course Title	L	Т	Р	Credits
			Semester Total				20
6	Open Elective	PHY4706	Quantum Matter & Technologies	3	0	0	3
6	Open Elective	SKL4701	Modern and Contemporary Writing	3	0	0	3
6	Open Elective	MTH3701	Introduction to Fractals	3	0	0	3
6	Open Elective	PSP3703	Introduction to Economics	3	_	0	3
6	Open Elective	CHE3701	Energy Storage Systems - From Conventional To The Future 2020	3	0	0	3
6	Open Elective	SKL3703	Corporate Communication	3	0	0	3
6	Open Elective	CHE4706	Computational Science of Microscopic Systems	3	0	0	3
6	Core Elective	MEC2705	Supply Chain Management	3	_	0	3
6	Core Elective	MEC4002	Computational Modeling of Mechanics of Material	3	0	0	3

		B.Tech.	- Mechanical Er	ngineering [ME]: 2019	
Sem	Category	Sub-Category	Course Code		Credits
1	Co-Curricular				1
1	Perspective	School	PSP1003	Joy of Engineering	2
1	Skill	School	SKL1704	Communication Skills	1
1	Skill	School	SKL1706	Technical Report Writing	2
1	Foundation	School	MTH1704	Calculus for Engineers	2
1	Foundation	School	MTH1705	Ordinary Differential Equations	2
1	Foundation	School	CHE1701	Engineering Chemistry	1
1	Foundation	School	PHY1701	Physics for Engineers	2
1	Foundation	School	ECE1704	Basic Electrical Engineering	2
1	Foundation	School	CSE1702	Computer Programming	2
1	Foundation	School	CSE1703	Fundamentals of Data Science	2
1	Foundation	School	CSE1501	Programming Lab	1
1	Foundation	School	CSE1502	Data Science Lab	1
				Semester Total	21
Sem	Category	Sub-Category	Course Code	Course Title	Credits
2	Co-Curricular				1
2	Perspective	School	PSP1710	Engineering Ethics	2
2	Perspective	School	PSP1711	Environmental Studies	2
2	Skill	School	SKL1707	Coding Skills	2
2	Foundation	School	MEC1006	Engineering Graphics	2
2	Foundation	School	ECE1008	Introduction to Sensors and IoT	2
2	Foundation	School	CHE1702	Electrochemistry and Energy Storage	1
2	Foundation	School	MEC1709	Automation and Industry 4.0	1
2	Foundation	<u> υθαιτίπεπτ</u>	MEC1707	Introduction to 3D Printing	1
2	Foundation	ம்சூள்ளிய் ம்சூள்ளிய்	MTH1706	Linear Algebra	2
2	Foundation	υεβαιτίπεπι	MEC1705	Engineering Mechanics	2
2	Foundation	Specific	MEC1706	Elements of Manufacturing	1
2	Core	Lab	MEC1005	Workshop Practice	1.5
2	Core	Lab	MEC1708	Introduction to MATLAB	0.5
				Semester Total	21
ST1	Practice School			Practice School -I	Audit
				C Titl	
Sem	Category	Sub-Category	Course Code	Course Title	Credits
3	Co-Curricular	6.1	CIVI 2704	File all as and Consequent and Chille	1
3	Skill	School		Etiquettes and Conversational Skills	2
3	.:				_
	Perspective	School	PSP2705	Critical Reasoning and Design Thinking	2
3	Foundation	реранитени	MEC2715	Engineering Thermodynamics	2
3 3	Foundation Foundation	School Departifient Departifient	MEC2715 MTH2705	Engineering Thermodynamics Probability and Statistics	2 2
3 3 3	Foundation Foundation Foundation	ာမှောartifient တမ်ာ့artifient တမ်ာ့artifient	MEC2715 MTH2705 MEC2716	Engineering Thermodynamics Probability and Statistics Fluid Mechanics	2 2 2
3 3 3 3	Foundation Foundation Foundation Core	ப்படிக்கள் மித்தார்கள் மித்தார்கள் Classroom	MEC2715 MTH2705 MEC2716 MEC2717	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials	2 2 2 2
3 3 3 3	Foundation Foundation Foundation Core Core	Department Departifient Departifient Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy	2 2 2 2 2 2
3 3 3 3 3	Foundation Foundation Foundation Core Core Core	Department Departifient Departifient Classroom Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I	2 2 2 2 2 2 2
3 3 3 3 3 3	Foundation Foundation Core Core Core Core	Classroom Classroom Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals	2 2 2 2 2 2 2 2 3
3 3 3 3 3 3 3	Foundation Foundation Foundation Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Classroom Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab	2 2 2 2 2 2 2 2 2 3
3 3 3 3 3 3	Foundation Foundation Core Core Core Core	Classroom Classroom Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab	2 2 2 2 2 2 2 2 3 1
3 3 3 3 3 3 3 3	Foundation Foundation Foundation Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total	2 2 2 2 2 2 2 2 3 1 1 1
3 3 3 3 3 3 3	Foundation Foundation Foundation Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Classroom Classroom Classroom	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab	2 2 2 2 2 2 2 2 3 1
3 3 3 3 3 3 3 3 5	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total	2 2 2 2 2 2 2 3 1 1 1 22 Credits
3 3 3 3 3 3 3 3 5 Sem	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab Sub-Category	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy	2 2 2 2 2 2 3 1 1 2 Credits
3 3 3 3 3 3 3 3 3 Sem 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab Sub-Category	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title	2 2 2 2 2 2 3 1 1 22 Credits
3 3 3 3 3 3 3 3 3 Sem 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab Sub-Category School School Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship	2 2 2 2 2 2 3 1 1 22 Credits 1
3 3 3 3 3 3 3 3 3 5 Sem 4 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab Sub-Category School Student Specific Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707 SKL2702 SKL2703	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship Resume Writing and Career Skills	2 2 2 2 2 2 3 1 1 22 Credits 1
3 3 3 3 3 3 3 3 3 5 Sem 4 4 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Lab Lab Sub-Category School School Student Specific Student Specific Student Specific Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707 SKL2702	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship Resume Writing and Career Skills Selling, Negotiating and Persuading Skills	2 2 2 2 2 2 3 1 1 1 22 Credits 1 1
3 3 3 3 3 3 3 3 3 5 Sem 4 4 4 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Classroom Classroom Sub-Category School School Student Specific Student Specific Student Specific Student Specific Student Specific Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707 SKL2702 SKL2703 SKL2704	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship Resume Writing and Career Skills Selling, Negotiating and Persuading Skills Theatre Studies	2 2 2 2 2 2 3 1 1 1 22 Credits 1 1
3 3 3 3 3 3 3 3 3 Sem 4 4 4 4 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Classroom Classroom Classroom Classroom Sub-Category School School Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707 SKL2702 SKL2703 SKL2704 SKL2705	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship Resume Writing and Career Skills Selling, Negotiating and Persuading Skills Theatre Studies Cross Cultural Communication Skills	2 2 2 2 2 2 3 1 1 22 Credits 1 1 1
3 3 3 3 3 3 3 3 3 5 Sem 4 4 4 4 4 4 4	Foundation Foundation Foundation Core Core Core Core Core Core Core Core	Classroom Classroom Classroom Classroom Classroom Classroom Sub-Category School School Student Specific Student Specific Student Specific Student Specific Student Specific Student Specific	MEC2715 MTH2705 MEC2716 MEC2717 MEC2718 MEC2719 MEC2719 MEC2720 MEC2013 MEC2014 Course Code PSP2706 PSP2707 SKL2702 SKL2702 SKL2703 SKL2704 SKL2705 MTH2707	Engineering Thermodynamics Probability and Statistics Fluid Mechanics Metallic Materials Physical Metallurgy Mechanics of Materials-I Casting and welding of Metals Materials Testing Lab Fluid Mechanics Lab Semester Total Course Title Global Energy: Politics, Markets and Policy Innovation and Entrepreneurship Resume Writing and Career Skills Selling, Negotiating and Persuading Skills Theatre Studies Cross Cultural Communication Skills Operations Research	2 2 2 2 2 2 3 1 1 2 Credits 1 1 1 1 1 1 1 1

4	Core	Classroom	MEC2724	Hydraulic Machines	2
4	Core	Classroom	MEC2725	CAD	2
4	Core	Classroom	MEC2726	Heat and Mass Transfer	3
4	Core	Classroom	MEC2727	Industrial Engineering	1
4	Core	Lab	MEC2015	Manufacturing Lab-II	1
4	Core	Lab	MEC2016	CAD Lab	1
	33.5			Semester Total	22
ST2	Practice School			Practice School -II	4
Sem	Category	Sub-Category	Course Code	Course Title	Credits
5	Co-Curricular	- can carrigery			1
5	Perspective	Student Specific	PSP3701	Understanding Bussiness	2
	· copecine		PSP3706	Principles of Management	
			PSP3707	Living Literature and Arts	
5	Core	Classroom	MEC3706	Kinematics of Machines	1.5
5	Core	Classroom	MEC3707	Dynamics of Machines	2
5	Core	Classroom	MEC3708	Machine Design-1	1.5
5	Core	Classroom	MEC3709	Machine Design-II	2
5	Core	Classroom	MEC3710	IC Engines	2
5	Core	Classroom	MEC3711	Production Planning and Control	1.5
5	Core	Classroom	MEC3712	Metrology and Instrumentation	2
5	Core	Classroom	MEC3713	Power and Refrigeration Systems	1.5
5	Core	Lab	MEC3010	Thermal Engineering Lab	1
5	Core	Lab	MEC3011	Simulation Lab	1
5	Core	Jennai / Case			2
		Ctudios		Semester Total	21
Sem	Category	Sub-Category	Course Code	Course Title	Credits
6	Perspective	Student Specific	PSP3708	Intellectual property rights	1
		'	PSP3709	International Human Rights	
			PSP3711	Right to Information Act.	
6	Core Elective	Classroom	MEC4001	Computational Fluid Dynamics	3
			MEC4002	Computational Modelling in Mechanics of	
			MEC4004	Vehicle Body Engineering and Aerodynamics	
			MEC4006	Introduction to Robotics	
6	Core Elective	Classroom	MEC4710	Electric and Hybrid Vehicles	
6	Core Elective	Classroom	MEC4003	Automotive Structures and Design	
			MEC4005	Drives and Control Systems for Robots	
			MEC4006	Introduction to Robotics	
			MEC4007	Industrial Automation	
6	Core Elective	Major Project	PRJ4001	Major Project	2
6	Open Elective	Classroom / Lab	PHY3701	Excel: Novice to Competent-	3
			SKL3703	Corporate Communication-	
			CVL4708	Remote Sensing and Geographic Information	
			MTH3702	Mathematical Modelling of Infectious Diseases	
			PSP3710	Managing Technology & Innovation-	
			CHE3701	Energy Data Analysis and Energy Storage	
				Semester Total	15
Sem	Category	Sub-Category		Course Title	Credits
7	Core Elective	Classroom			3
7	Core Elective	Classroom			3
7	Core Elective	Major Project			3
7	Open Elective	Classroom / Lab			3
7	Open Elective	Classroom / Lab			3
				Semester Total	15
Sem	Category	Sub-Category		Course Title	Credits
8	Practice School			Practice School-III	14
				Semester Total	14
-					
				Program Total	155
Sem	Category	Sub Category		Minor Program	Credit

VI & VII	Minor Program	Minor Program	1. Minor in Nanotechnology	15
			2. Minor in Energy Harvesting and Storage	15
			3. Minor in Computational Mathematics	15
			4.Minor Degree-Material Science	15

	E	3.Tech Mechanical Engineering: 2020	
Sem	Course Code	Course Title	Credits
1	CHE1701	Engineering Chemistry	1
1	SKL1704	Communication Skills	1
1	PSP1710	Engineering Ethics	2
1	PHY1701	Physics for Engineers	2
1	CSE1703	Fundamentals of Data Science	2
1	CSE1502	Data Science Lab	1
1	MTH1704	Calculus for Engineers	2
1	PSP1711	Environmental Studies	2
1	SKL1706	Technical Report Writing	2
1	CSE1702	Computer Programming	2
1	CSE1501	Programming Lab	1
			18
Sem	Course Code	Course Title	Credits
2		Co-Curricular	2
2	MEC1006	Engineering Graphics	2
2	SKL1707	Coding Skills	2
2	MTH1705	Ordinary Differential Equations	2
2	ECE1704	Basic Electrical Engineering	2
2	CHE1702	Electrochemistry and Energy Storage	1
2	MEC1705	Engineering Mechanics	2
2	MEC1706	Elements of Manufacturing	1
2	MEC1708	Introduction to MATLAB	0.5
2	PSP1003	Joy of Engineering	2
2	MEC1709	Automation and Industry 4.0	1
2	ECE1008	Introduction to Sensors and IoT	2
2	MTH1706	Linear Algebra	2
2	MEC2715	Engineering Thermodynamics	2
			23.5
Sem	Course Code	Course Title	Credits
3	SKL2701	Etiquettes and Conversational Skills	2
3	MTH2705	Probability and Statistics	2
3	MEC2716	Fluid Mechanics	2
3	MEC2717	Metallic Materials	2
3	MEC2719	Mechanics of Materials-I	2
3	MEC2720	Casting and welding of Metals	3
3	MEC2014	Fluid Mechanics Lab	1
3	PSP2705	Critical Reasoning and Design Thinking	2
3	MEC2718	Physical Metallurgy	2
3	MEC2/10	i nysicai metanurgy	18
			10

Sem	Course Code	Course	Credits
4	CC	Co-Curricular	1
4	PSP2707	Innovation and Entrepreneurship	1
4		Student specific Skill (Opt only one)	2
4	SKL2706	Cross Cultural Communication Skills	
4	SKL2707	Resume Writing and Career Skills	
4	SKL2709	Theatre Studies	
4	MEC2726	Heat and Mass Transfer	3
4	MEC2727	Industrial Engineering	1
4	MTH2708	Numerical Methods	1.5
4	MEC2722	Mechanics of Materials-II	2
4	MEC2723	Metal Cutting and Forming	2
4	MEC2015	Manufacturing Lab-II	1
4	MEC2724	Hydraulic Machines	2
4	MEC2725	CAD	2
4	MEC2016	CAD Lab	1
4	MTH2707	Operations Research	1.5
4	PSP2706	Global Energy: Politics, Markets and Policy	1
4	MEC2013	Materials Testing Lab	1
			23
ST2	Practice School	Practice School -II	4
Sem	Category	Sub-Category	Credits
5	Co-Curricular		1
5	Perspective	Student Specific	2
5	Core	Classroom	1.5
5	Core	Classroom	2
5	Core	Classroom	2
5	Core	Classroom	2
5	Core	Classroom	2
5	Core	Classroom	1.5
5	Core	Classroom	2
5	Core	Classroom	1.5
5	Core	Classroom	3
5	Core	Lab	1
5	Core	Lab	1
5	Core	Seminar / Case Studies	2
			24.5
Sem	Category	Sub-Category	Credits
6	Perspective	Student Specific	1
6	Core Elective	Classroom	3

6	Core Elective	Classroom	3
6	Core Elective	Classroom	3
6	Core Elective	Major Project	2
6	Open Elective	Classroom / Lab	3
			15
Sem	Category	Sub-Category	Credits
7	Core Elective	Classroom	3
7	Core Elective	Classroom	3
7	Core Elective	Major Project	3
7	Open Elective	Classroom / Lab	3
7	Open Elective	Classroom / Lab	3
			15
Sem	Category	Sub-Category	Credits
8	Practice School	Practice School-III	14
		Semester Total	14
		Program Total	155
Sem		Sub Category	Credit
VI		Minor Program	15
VII		Minor Program	15

	B.Tech. Mechanical Engineering (ME): 2021									
Sem	Category	Course Title	L	D	Р	Credits				
1	Perspective	Joy of Engineering-1	1	0	4	3				
1	Found.	Mathematics-1 (calculus & Differential Equation)	2	0	0	2				
1	Found.	Physics for Mechanical Engineers	1	0	2	2				
1	Found.	Matlab	1	0	2	2				
1	Found.	Computer Programming	1	0	2	2				
1	Found.	Introduction to Sensors, Actuators & IoT	1	0	2	2				
1	Core	Engineering Graphics	1	0	2	2				
1	Core	Engineering Materials-1	2	0	0	1.5				
1	Core	Elements of Manufacturing	2	0	0	1.5				
1	Core Lab	Manufacturing Lab-1	0	0	1	0.5				
1	Core Lab	Material Testing Lab-1	0	0	1	0.5				
1	Skill	Communication Skills	1	0	0	1				
1	Skill	Engineering Ethics	1	0	0	1				
1	Co-Curricular	Co-Curricular	1	0	0	1				
		Total credits	15	0	16	22				
Sem	Category	Course Title	L	D	Р	Credits				
2	Perspective	Joy of Engineering-2	1	0	4	3				
2	Found.	Basics of Electrical Engineering	1	0	0	1				
2	Found.	Basics of Electronics Engineering	2	0	0	1.5				
2	Core	Metrology & Measurements	1	0	2	2				
2	Core	Engineering Thermodynamics	2	0	0	2				
2	Core	Engineering Mechanics	2	1	0	3				
2	Core	Machine Drawing	1	0	2	2				
2	Core Lab	Thermal Engineering Lab-1	0	0	1	0.5				
2	Found. Lab	Basics of Electrical Engineering Lab	0	0	1	0.5				
2	Found. Lab	Basics of Electronics Engineering Lab	0	0	1	0.5				
2	Skill	Technical Report Writing	2	0	0	2				
2	Perspective	Environmental Studies	2	0	0	2				
2	Co-Curricular	Co-Curricular	1	0	0	1				
2	ST	Practice School-1			Aud					
		Total credits	16	0	11	21				
Sem	Category	Course Title	L	D	Р	Credits				
3	Found.	Mathematics-II (Probability & Statistics)	2	0	0	2				
3	Found.	Data Structures and Algorithms	2	0	0	2				
3	Core	Strength of Materials-1	2	0	0	2				
3	Core	Applied Engineering Thermodynamics	2	0	0	1.5				
3	Core	Kinematics of Machines	2	0	0	2				
3	Core	Computer Aided Design (CAD)	2	0	0	2				
3	Core	Casting & welding of Metals	2	1	0	3				
3	Core	Fluid Mechanics	2	0	0	2				
3	Core Lab	Fluid Mechanics Lab	0	0	1	0.5				
3	Core Lab	Kinematics of Machines Lab	0	0	1	0.5				
3	Core Lab	CAD Lab	0	0	2	1				
3	Core Lab	Manufacturing lab-2	0	0	1	0.5				

3	skill	Etiquettes and Conversational Skills	2	0	0	2
3	Co-Curricular	Co-Curricular	1	0	0	1
		Total credits	20	0	5	22
Sem	Category	Course Title	L	D	Р	Credits
4	Core	Dynamics of Machines	2	0	0	2
4	Core	Engineering Materials-2	2	0	0	1.5
4	Core	Strength of Materials-2	2	0	0	2
4	Core	Industrial Engineering	2	0	0	2
4	Core	Metal Cutting & Forming	2	0	0	2
4	Core	Operations Research	2	0	0	2
4	Core	Fluid Machines	2	0	0	2
4	Core Lab	Fluid Machines Lab	0	0	1	0.5
4	Core Lab	Dynamics of Machines Lab	0	0	1	0.5
4	Core Lab	Manufacturing Lab-3	0	0	2	1
4	Core Lab	Material Testing Lab-2	0	0	1	0.5
4	Perspective	Global Energy: Politics, Markets and Policy	1	0	0	1
4	Perspective	Innovation and Entrepreneurship	1	0	0	1
4	Co-Curricular	Co-Curricular	1	0	0	1
4	Skill	Magic in Mechanical Engg. – Product Development	2	0	0	2
		Total credits	19	0	5	21
		(Audit course) Python	0	0	2	0
	PS-II				4	4
Sem	Category	Course Title	L	D	Р	Credits
5	Core	Machine Design-1	2	0	0	2
5	Core	Machine Design-2	2	0	0	2
5	Core Core	Machine Design-2 Automation with PLC	2	0	0	2 2
5 5 5	Core Core Core	Machine Design-2 Automation with PLC Heat Transfer	2 1 3	0 0 0	0 2 0	2 2 2.5
5 5 5	Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control	2 1 3 2	0 0 0	0 2 0 0	2 2 2.5 2
5 5 5 5	Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability	2 1 3 2 2	0 0 0 0	0 2 0 0	2 2 2.5 2
5 5 5 5	Core Core Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines	2 1 3 2 2 2	00000	0 2 0 0 0	2 2 2.5 2 2 1.5
5 5 5 5 5	Core Core Core Core Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab	2 1 3 2 2 2 0	000000	0 2 0 0 0 0	2 2 2.5 2 2 1.5
5 5 5 5 5 5	Core Core Core Core Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab	2 1 3 2 2 2 0 0	000000	0 2 0 0 0 0 2 1	2 2 2.5 2 2 1.5 1 0.5
5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2	2 1 3 2 2 2 0 0	00000000	0 2 0 0 0 0 2 1 1	2 2 2.5 2 2 1.5 1 0.5 0.5
5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular	2 1 3 2 2 2 0 0 0	00000000	0 2 0 0 0 0 2 1 1	2 2 2.5 2 2 1.5 1 0.5 0.5
5 5 5 5 5 5 5	Core Core Core Core Core Core Core Lab Core Lab Core Lab Core Lab Perspective	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study	2 1 3 2 2 2 0 0 0 1 2	0000000000	0 2 0 0 0 0 2 1 1 0	2 2 2.5 2 1.5 1 0.5 0.5 1
5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective	2 1 3 2 2 2 0 0 0 1 2 2	00000000000	0 2 0 0 0 0 2 1 1 0 0	2 2 2.5 2 1.5 1 0.5 0.5 1 2
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Perspective Perspective	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits	2 1 3 2 2 2 0 0 0 1 2	0000000000	0 2 0 0 0 0 2 1 1 0	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2
5 5 5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Co-Curricular. Perspective Perspective	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title	2 1 3 2 2 2 0 0 0 1 2 2	00000000000	0 2 0 0 0 0 2 1 1 0 0	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Perspective Perspective	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3	2 1 3 2 2 2 0 0 0 1 2 2	00000000000	0 2 0 0 0 0 2 1 1 0 0	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits
5 5 5 5 5 5 5 5 Sem 6	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Co-Curricular. Perspective Perspective PS	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits	2 1 3 2 2 2 0 0 0 1 2 2 19	00000000000	0 2 0 0 0 0 2 1 1 0 0 0 5	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14
5 5 5 5 5 5 5 Sem 6 Sem	Core Core Core Core Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits	2 1 3 2 2 0 0 0 1 2 2 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 2 1 1 0 0 5	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14 14 Credits
5 5 5 5 5 5 5 5 5 5 5 7	Core Core Core Core Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits	2 1 3 2 2 0 0 0 1 2 2 19 L 3	о о о о о о о о о о о о о о о о о о о	0 2 0 0 0 0 2 1 1 0 0 0 5 P	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14 14 Credits 3
5 5 5 5 5 5 5 5 5 Sem 7	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Co-Curricular. Perspective Perspective Category PS Category Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits Course Title Refrigeration & Air conditioning Hybrid & Electrical Automobiles	2 1 3 2 2 0 0 0 1 2 2 19 L 3 3	о о о о о о о о о о о о о о о о о о о	0 2 0 0 0 0 2 1 1 0 0 5 P	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14 14 Credits 3
5 5 5 5 5 5 5 5 5 5 7 7	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Co-Curricular. Perspective Perspective Category PS Category Core Core Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits Course Title Refrigeration & Air conditioning Hybrid & Electrical Automobiles Mechatronics	2 1 3 2 2 0 0 0 1 2 2 19 L 3 3	0000000000000 D 000	0 2 0 0 0 0 2 1 1 0 0 0 5 P 0	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14 14 Credits 3 3 2
5 5 5 5 5 5 5 5 5 Sem 7	Core Core Core Core Core Core Core Core Lab Core Lab Core Lab Co-Curricular. Perspective Perspective Category PS Category Core Core	Machine Design-2 Automation with PLC Heat Transfer Production Planning & Control Quality Control & Reliability Internal Combustion Engines Finite Element Analysis Lab Hydraulics & Pneumatics Lab Thermal Engineering Lab-2 Co-Curricular Seminar/ case study Perspective Total credits Course Title Practice School-3 Total credits Course Title Refrigeration & Air conditioning Hybrid & Electrical Automobiles	2 1 3 2 2 0 0 0 1 2 2 19 L 3 3	о о о о о о о о о о о о о о о о о о о	0 2 0 0 0 0 2 1 1 0 0 5 P	2 2 2.5 2 1.5 1 0.5 0.5 1 2 2 21 Credits 14 14 Credits 3

7	Core Elective	Core Elective-1	2	0	0	2
7	Open Elective	Open Elective-2	2	0	0	2
		Total credits	15	0	0	16
Sem	Category	Course Title	L	D	Р	Credits
8	Core Elective	Core Elective-1	2	0	0	2
8	Core Elective	Core Elective-2	2	0	0	2
8	Core Elective	Core Elective-3	2	0	0	2
8	Core Elective	Core Elective-4	2	0	0	2
8	Core Elective	Core Elective-5	2	0	0	2
8	Open Elective	Open Elective-1	2	0	0	2
8	Open Elective	Open Elective-2	2	0	0	2
		Total credits	14	0	0	14
		TOTAL PROGRAM CREDITS				155