ACADEMIC CURRICULA

UNDERGRADUATE DEGREE PROGRAMMES

Bachelor of Technology

(B.Tech. - Four Years)

(Choice Based Flexible Credit System)

Regulations 2018

Volume - 1

(Revised in March 2019)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur, Kancheepuram District 603203, Tamil Nadu, India

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Kattankulathur, Kanchecpuram District 603203, Tamil Nadu, India

29. B.Tech. in Mechanical and Automation Engineering

29. (a) Mission of the Department

Mission Stmt - 1	To impart quality education to produce mechanical engineers and enhance their skills to become world renowned professionals
Mission Stmt - 2	To establish Centres of Research Excellence to inculcate research acumen in faculty and students on the areas like; machining, biomechanics, bio-fuels, composites, and energy
Mission Stmt - 3	To provide state-of-the-art education and training programs to the faculty and student fellowship

29. (b) Program Educational Objectives (PEO)

PEO - 1	Practice mechanical engineering in different disciplines towards system design, realization, manufacturing and industrial automation.
PEO - 2	Enhance professional practice to meet the global standards with ethical and social responsibility.
PEO - 3	Solve industrial, social, and environmental problems with appropriate techniques and tools.
PEO - 4	Work in large cross-functional teams and pursue life-long learning.

29. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3
PEO - 1	Н	Н	Н
PEO - 2	Н	Н	M
PEO - 3	H	Н	Н
PEO - 4	M	M	Н

H – High Correlation, M – Medium Correlation, L – Low Correlation

29. (d) Mapping Program Educational Objectives (PEO) to Program Learning Outcomes (PLO)

		- 1			K N	Progra	ım Lear	ning Ou	tcomes	(PLO)			-7		
	7		4		Gra	aduate At	tributes (0	GA)	7		3		Prog Out	gram Spe comes (F	e <mark>cifi</mark> c (SO)
	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO - 1	PSO - 2	PSO - 3
PEO - 1	Н	Н	Н	Н	М	М	L	Н	Н	Н	L	Н	Н	Н	Н
PEO - 2	Н	Н	М	М	L	H	Н	Н	Н	L	L	M	Н	Н	L
PEO - 3	М	М	М	М	Н	Н	Н	Н	L	М	Н	Н	Н	L	М
PEO - 4	Н	М	М	М	М	Н	М	М	Н	Н	Н	Н	М	Н	Н

H – High Correlation, M – Medium Correlation, L – Low Correlation

PSO – Program Specific Outcomes (PSO)

	0 [
PSO - 1	Ability to Develop and implement new ideas on product design and improved productivity with the help of modern computer aided tools and
1 00 - 1	automated systems.
PSO - 2	Ability to apply engineering knowledge and design & analysis tools to solve problems in the domains of structural, thermal and fluid mechanics.
PSO - 3	Engage professionally in industries or as an entrepreneur by applying manufacturing and management practices.

29. (e) Program Structure: B.Tech. in Mechanical and Automation Engineering

	Humanities & Social Sciences						Basic Science Courses (B)				
Course	including Management Courses (H)	D.	ouro/	Mod		Course	Course			Veek	
Course Code	Course Title	L	ours/	Week	С	Code	Title Physics: Electromagnetic Theory, Quantum	L	T	Р	С
18LEH101J		2		2	3	18PYB101J	Mechanics, Waves and Optics	3	1	2	5
18LEH102J		Ī	-	1 -	Ť	18CYB101J	Chemistry	3	1	2	5
18LEH103J	French						Calculus and Linear Algebra	3	1	0	4
18LEH104J	German	2	0	2	3		Advanced Calculus and Complex Analysis	3	1	0	4
18LEH105J							Transforms and Boundary Value Problems	3	1	0	4
18LEH106J							Numerical Methods for Engineers	3	1	0	4
18PDH101T	General Aptitude	0	0	2	1	18BTB101T		2	0	0	2
	Management Principles for Engineers	2	0	0	2	18PYB201T	Waves and Optics	3	1	0	4
18PDH1031	Social Engineering	2	0	0	2		Total Learning Credits	;			32
18PDH2011	Employability Skills & Practices Total Learning Credits	0	0	2	1						
	Total Learning Credits				IZ	Course	Professional Core Courses (C) Course	Ног	ire/\	Veek	
	Engineering Science Courses (S)					Code	Title	1100	T T	_	С
Course	Course	Нο	urs/\	Week			Thermodynamics	3	1		4
Code	Title	L	T	P	С		Fluid Mechanics	3	1	0	4
	Engineering Graphics and Design	1	0	4	3		Manufacturing Technology	3	1	0	4
18MES102J	Basic Civil and Mechanical Engineering	3	1	2	5		Fluid Dynamics Laboratory	0	0	2	1
	Active Learning Laboratory	0	0	2	1		Manufacturing Process Laboratory	0	0	2	1
	Electrical and Electronics Eng. Workshop	1	0	4	3		Mechanics of Solids	3	1	0	4
	Programming for Problem Solving	3	0	4	5	18MEC107T	Applied Thermal Engineering	3	1	0	4
	Engineering Mechanics	3	1	0	4		Materials Technology	3	0	0	3
	Total Learning Credits				21		Strength of Materials Laboratory	0	0	2	1
		H	Ŧ		-	18MEC110L	Heat Power Laboratory	0	0	2	1
	Open Elective Courses (O)						Materials Technology Laboratory	0	0	2	1
	(Any 4 Open Elective Courses)						Machines and Mechanisms	3	1	0	4
Course	Course			Week			Heat and Mass Transfer	3	1	0	4
Code	Title	L		Р	С		Machine Dynamics Laboratory Simulation Laboratory	0	0	2	1
	Robotics Engineering and Applications		0		3		Heat and Mass Transfer Laboratory	0	0	2	1
	Alternative Sources of Energy	3		0	3		Metrology and Quality Control	3	0	0	3
	Energy Systems For Buildings	3		0	3	18MEC200T		3	0	0	3
	Operations Research	3		0	3	18MFC208T	Mechanical Engineering Design	3	1		4
18MEO1051	Materials Management Environmental Pollution and Abatement	3		0	3	18MFC2091	CAD / CAM Laboratory	0	0	2	1
	Nano Robotics	3		0	3		Automation Laboratory	0	0		1
	Automatic Control Systems	3		0	3		Metrology and Quality Control Laboratory	0	0	2	1
	Neural Network and Fuzzy Systems	3		0	3		Comprehension	0	1	0	1
	Robotic Sensors	3		0	3		Total Learning Credits	;		•	53
	Industrial Engineering	3		0	3						
	Production Management	3		0	3		Project Work, Seminar, Internship In				
	Design of Experiments	3	0	0	3		Industry / Higher Technical Institutions (P)				
18MEO114T	Modern Control Theory	3			3	Course	Course	Hou	ırs/ V	/eek	
	Facilities Planning	3		0	3	Code	Title	L	Τ	Р	С
	Industrial Safety and Environment	3			3		Massive Open Online Course - I				
	Artificial Intelligence and Expert Systems	3		0	3		Industrial Training-I	0	0	2	1
	Micro Controller and Its Application in Robotics	3			3	18MEP103L					
	Machinery Fault Diagnostics&Signal Processing	3			3		Massive Open Online Course - II				
18MEO1201	Digital Image Processing and Machine Vision	3			3	18MEP105L	Industrial Training-II	0	0	2	1
18MEU1211	Multidisciplinary Design		0	0	12		Seminar - II	Ť		_	
	Total Learning Credits				12		Minor Project	_	_	_	_
	Professional Florities Occurred (F)	Ш		-			Internship (4-6 weeks)	0	0	6	3
	Professional Elective Courses (E)					18MEP109L		_	^	00	
Course	(Any 5 Elective Courses)	111		Ma al			Semester Internship	0	0	20	10
Code	Course	ПО	urs/ V	Veek P	С		Total Learning Credits	;			15
Code	Title Sensors and Actuators for Automation.	2 2	0		3						
	Microprocessor and Microcontrollers.	2	0	2	3		Mandatory Courses (M)				
	Industrial Robotics and Automation	3	0	0	3	Course	Course	Ног	ırs/ V	/eek	
	PLC and its Applications.	3	0	0	3	Code	Title	1	T	_	С
	Flexible Manufacturing System	3	0	0	3	18PDM1011	Professional Skills and Practices	0	0	2	0
IONELKK		3	0	0	3		Competencies in Social Skills				
	Internet of Things in Automation		,		3		Entrepreneurial Skill Development	0	0	2	0
18MEE432T	Internet of Things in Automation. Virtual Instrumentation.		0	0 1							
18MEE432T 18MEE433T	Internet of Things in Automation. Virtual Instrumentation. Neural Network and Fuzzy systems.	3	0	0	3	18001112021	Critical and Creative Thinking Skills			2	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation.		0	0 0	3		Critical and Creative Thinking Skills	0	0		
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems.	3 3	0	0		18PDM204L	Business Basics for Entrepreneurs				
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills	0	0	2	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management	0	0		
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India	0	0	0	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education	0 1 1	0 0 0	0	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga	0	0	0	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L 18GNM102L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS	- 0 1 1 0	0 0 0 0	0 1 2	0 0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L 18GNM102L 18GNM103L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NCC	0 1 1	0 0 0	0	0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L 18GNM102L 18GNM103L 18GNM104L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NCC NSO	0 1 1 0 0	0 0 0 0	0 1 2 2	0 0 0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L 18GNM103L 18GNM103L 18GNM104L 18LEM109T	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge	0 1 1 0 0	0 0 0 0	0 1 2 2 0	0 0 0
18MEE432T 18MEE433T 18MEE434T	Virtual Instrumentation. Neural Network and Fuzzy systems. Elements of Mechatronics.	3 3	0	0	3	18PDM204L 18PDM301L 18PDM302L 18LEM101T 18LEM102J 18GNM101L 18GNM103L 18GNM104L 18LEM109T 18LEM110L	Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NCC NSO	0 1 1 0 0	0 0 0 0	0 1 2 2 0 2	0 0 0

29. (f) Program Articulation: B.Tech. in Mechanical and Automation Engineering

				Р	rog	ram	Lea	arni	ng (Outo	com	es (PLO	D)		
						Gradu	ate	Attrib	outes						PSO	
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO - 1	PSO - 2	PSO - 3
18MES101L	Engineering Graphics and Design	Н	Н	М	М	L	L	L	L	L	L	L	Н	Μ	М	М
18MES102J	Basic Civil and Mechanical Engineering	Н	Н	М	М	М	L	L	L	L	L	L	Н	Μ	Μ	М
18MES103L	Civil and Mechanical Engineering Workshop	Н	Н	М	М	М	L	М	М	L	М	L	Н	М	М	L
18MES104L	Active Learning Laboratory	Н	М	М	М	М	L	М	L	М	М	L	Н	Н	Н	Н
18MES201T	Engineering Mechanics	Н	М	М	М	М	L	М	L	М	М	М	Н	Н	Н	Н
	Thermodynamics	Н	Н	М	М	М	L	L	L	М	М	М	М	М	М	М
	Fluid Mechanics	Н	Н	Н	Н	M	L	L	L	M	L	М	Н	L	Н	L
	Manufacturing Technology	Н	Н	М	Н	М	L	М	М	L	L	М	Н	М	L	М
	Fluid Dynamics Laboratory	Н	Н	Н	Н	М	L	1	L	M	М	М	М	1	L	1
	Manufacturing Process Laboratory	Н	Н	Н	Н	М	L	L	L	Н	L	М	Н	Н	<u>-</u>	L
	Mechanics of Solids	Н	Н	М	Н	М	L	М	М	L	L	М	Н	М	L	М
	Applied Thermal Engineering	Н	Н	М	М	М	L	1	L	М	М	М	М	М	<u>_</u>	М
	Materials Technology	Н	Н	Н	Н	М	М	М	L	L	L	М	М	L	L	L
	Strength of Materials Laboratory	Н	Н	Н	Н	M	L	М	L	Н	L	М	Н	М	Н	L
	Heat Power Laboratory	Н	Н	М	Н	M	L	L	L	М	М	М	Н	M	М	L
	Materials Technology Laboratory	Н	Н	М	М	Н	Н	Н	L	М	L	L	Н	Н	М	М
	Machines and Mechanisms	Н	Н	М	М	М	L	L	L	М	М	М	М	М	М	М
	Heat and Mass Transfer	Н	Н	М	М	М	L	L	L	М	М	Н	М	М	М	М
	Machine Dynamics Laboratory	Н	Н	М	Н	М	L	L	L	М	М	М	Н	М	М	М
	Simulation Laboratory	Н	Н	М	Н	М	L	L	L	М	М	М	Н	М	М	М
	Heat and Mass Transfer Laboratory	Н	Н	М	Н	М	L	L	L	М	М	М	Н	М	М	М
	Metrology and Quality Control	Н	Н	Н	Н	М	М	Н	М	М	М	Н	Н	М	М	Н
18MEC207T	<u> </u>	Н	Н	Н	Н	L	М	Н	L	L	L	Ĺ	Н	М	М	Н
	Mechanical Engineering Design	Н	Н	Н	Н	L	М	Н	L	L	L	L	Н	Н	М	М
	CAD / CAM Laboratory	Н	М	М	М	М	L	М	L	М	М	М	Н	Н	Н	Н
	Automation Laboratory	Н	Н	Н	Н	М	L	L	L	L	L	L	М	М	М	М
	Metrology and Quality Control Laboratory	Н	Н	Н	Н	М	М	Н	L	L	L	L	Н	М	М	М
	Massive Open Online Course - I	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
	Industrial Training-I	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18MEP103L	Seminar - I	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
	Massive Open Online Course - II	Н	М	М	М	М	Μ	М	М	Н	Н	Н	М	Н	Н	Н
	Industrial Training-II	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18MEP106L		Н	М	М	М	М	М	М	М	Н	Н	Н	М	H	Н	Н
	Minor Project	Н	Н	Н	Н	Н	M	M	Н	Н	Н	Н	Н	H	M	M
	Internship (4-6 weeks)	H	H	H	H	H	M	M	H	H	H	Н	H	H	M	M M
18MEP109L	Semester Internship	Н	Н	Н	Н	Н	М	M	Н	Н	H	Н	Н	Н	M	M
TOWILFITUL	Program Average	Н	Н	Н	Н	Н	M	M	Н	П	Н	П	Н	Н	M	M
	i Togram Average	17	17	17	-17_	11	IVI	IVI	17	17	17	17	17	17	IVI	IVI

29. (g) Implementation Plan: B.Tech. in Mechanical and Automation Engineering

	Semester - I						Semester - II				
Code	Course Title	Hou	ırs/ V T	Veek	С	Code	Course Title	Hou	urs/ \	Veek P	С
18LEH10XJ	Chinese / French / German / Japanese/ Korear	1 2	0	2	3	18LEH101J	English	2	0		3
	Calculus and Linear Algebra	3	1	0	4		Advanced Calculus and Complex Analysis	3	1		4
18CYB101J		3	1	2	5	18PYB101J	Physics: Electromagnetic Theory, Quantum	3	1	2	5
	Programming for Problem Solving	3	0	4	5		Mechanics, Waves and Optics				
	Electrical and Electronics Eng. Workshop Professional Skills and Practices	1	0	4	3		Engineering Graphics and Design Basic Civil and Mechanical Engineering	3	1		<u>3</u>
	Value Education	0	0	2	0		Active Learning Laboratory	0	0		1
18GNM102L		+	U	'	U		General Aptitude	0	0		1
18GNM103L		0	0	2	0		Constitution of India	1	0		0
18GNM104L	NSO					18GNM101L	Physical and Mental Health using Yoga	0			0
	Total Learning Credits	3			20		Total Learning Credits	5			22
	Semester - III	Hou	ırs/ V	Vook			Semester - IV	Но	ire/\	Veek	
Code	Course Title	L	Τ	Р	С	Code	Course Title	L	T	P	С
	Transforms and Boundary Value Problems	3	1	0	4		Numerical Methods for Engineers	3	1		4
	Engineering Mechanics	3	1	0	4	18BTB101T		2	0		2
	Thermodynamics Fluid Mechanics	3	1	0	4		Mechanics of Solids	3	1		4
	Manufacturing Technology	3	1	0	4		Applied Thermal Engineering	3	1		4
	Fluid Dynamics Laboratory	0	0	2	1		Materials Technology	3	0		3
	Manufacturing Process Laboratory	0	0	2	1		Strength of Materials Laboratory	0	0		1
	Social Engineering	2	0	0	2		Heat Power Laboratory Materials Technology Laboratory	0	0		1
18PDM201L	Competencies in Social Skills			2			Management Principles for Engineers	2	0		2
	Entrepreneurial Skill Development	0	0	2	0	18PDM2021	Critical and Creative Thinking Skills				
18CYM101T	Environmental Science	1	0	0	0		Business Basics for Entrepreneurs	0	0	2	0
	Total Learning Credits	3			24		Total Learning Credits	5			22
							Trum				
						Section	1917-21-7				
	Semester - V					101	Semester - VI				
Code		Hou	ırs/ V		С	100	Semester - VI		_	Veek	С
Code	Course Title	L	Τ	Р	C	Code	Semester - VI Course Title	Hou	Τ	Р	C
18PYB201T	Course Title Waves and Optics	L 3	T 1	P 0	4	Code 18MEC206T	Semester - VI Course Title Metrology and Quality Control	Hor L	T 0	P 0	3
18PYB201T 18MEC201T	Course Title Waves and Optics Machines and Mechanisms	3 3	T 1	P 0 0	4	Code 18MEC206T 18MEC207T	Semester - VI Course Title Metrology and Quality Control CAD/CAM	Hou L 3	T 0 0	P 0 0	3
18PYB201T 18MEC201T 18MEC202T	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer	3 3 3	T 1 1	P 0 0	4 4	Code 18MEC206T 18MEC207T 18MEC208T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design	Hot L 3 3 3 3	T 0 0	P 0 0	3
18PYB201T 18MEC201T 18MEC202T 18MEC203L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory	3 3	T 1	P 0 0 0 2	4	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory	Hot L 3	T 0 0	P 0 0 0 2	3 3 4
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer	3 3 3 0	T 1 1 1 0 0	P 0 0	4 4 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design	Hot L 3 3 3 0	T 0 0 1 0 0 0	P 0 0 0 2 2 2 2 2	3 3 4 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory	3 3 3 0 0 0 0	T 1 1 1 0 0 0	P 0 0 0 2 2 2 2	4 4 1 1 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension	Hot L 3 3 3 0 0 0 0 0 0 0	T 0 0 1 0 0 0 0	P 0 0 0 2 2 2 2 0	3 3 4 1 1 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2	3 3 3 0 0 0 0 3 3	T 1 1 0 0 0 0 0	P 0 0 0 2 2 2 2 0	4 4 4 1 1 1 3 3	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3	Hot L 3 3 3 3 0 0 0 0 0 0 0 3 3	T 0 0 1 0 0 0 1 0	P 0 0 0 2 2 2 2 0 0	3 3 4 1 1 1 1 3
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1	3 3 3 0 0 0 0	T 1 1 1 0 0 0	P 0 0 0 2 2 2 2	4 4 1 1 1 3	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2	Hot L 3 3 3 0 0 0 0 0 0 0	T 0 0 1 0 0 0 0	P 0 0 0 2 2 2 2 0 0	3 3 4 1 1 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I	L 3 3 0 0 0 0 3 3 3	T 1 1 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0	4 4 1 1 1 3 3 3 3 3	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II	Hot L 3 3 3 0 0 0 0 0 0 3 3 3	T 0 0 1 0 0 0 1 0 0	P 0 0 0 2 2 2 2 0 0	3 3 4 1 1 1 1 3 3
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP101L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I	3 3 3 0 0 0 0 3 3	T 1 1 0 0 0 0 0	P 0 0 0 2 2 2 2 0	4 4 4 1 1 1 3 3	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II	Hot L 3 3 3 3 0 0 0 0 0 0 0 3 3	T 0 0 1 0 0 0 1 0	P 0 0 0 2 2 2 2 0 0	3 3 4 1 1 1 1 3
18PYB201T 18MEC201T 18MEC203L 18MEC204L 18MEC205L 18MEC101L 18MEP101L 18MEP102L 18MEP103L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I	L 3 3 0 0 0 0 3 3 3	T 1 1 1 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2	4 4 1 1 1 3 3 3 3 3	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II	Hoo L 3 3 3 0 0 0 0 3 3 3 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2	3 3 4 1 1 1 1 3 3
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP101L 18MEP103L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills	L 3 3 0 0 0 0 3 3 3	T 1 1 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0	4 4 1 1 1 3 3 3 3 3	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	Hoo L 3 3 3 3 0 0 0 0 0 3 3 3 3 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	3 3 4 1 1 1 1 3 3
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management	L 3 3 3 0 0 0 0 0 3 3 3 3 3 0	T 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0	4 4 4 1 1 1 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge	Hot L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	3 3 4 1 1 1 1 3 3 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form	L 3 3 3 0 0 0 0 3 3 3 3 3 0 0 0 0 0 0	T 1 1 1 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2	4 4 4 1 1 1 3 3 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	Hot L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	3 3 4 1 1 1 1 3 3
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management	L 3 3 3 0 0 0 0 3 3 3 3 3 0 0 0 0 0 0	T 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0	4 4 4 1 1 1 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge	Hot L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	3 3 4 1 1 1 1 3 3 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form	L 3 3 3 0 0 0 0 0 0 3 3 3 3 3 0 0 0 0 0	T 1 1 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	4 4 4 1 1 1 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge	Hot L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2 2	3 3 4 1 1 1 1 3 3 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits	L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 2 2 2 2 2 2 2 2 2	4 4 4 1 1 1 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC208T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective – 3 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits	Hon L 3 3 3 9 0 0 0 0 0 0 0 1 1 5 5	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2 2 0 0 0 0	3 3 4 1 1 1 1 3 3 1
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L 18PDM302L 18LEM110L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title	L 3 3 3 0 0 0 0 0 0 0 3 3 3 3 3 0 0 0 0	T 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Trs/ V T	P 0 0 0 0 2 2 2 0 0 0 0 2 2 2 2 2 P	4 4 4 1 1 1 1 1 3 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC207L 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hot L 3 3 3 3 3 0 0 0 0 0 0 3 3 3 3 0 0 0 1 1 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 0 0 0 0 0 0	3 3 4 1 1 1 1 1 3 3 1 0 22
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC205L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L 18PDM302L 18LEM110L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Professional Elective – 4	L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 2 2 0 0 0 2 2 2 2 2 2 2 2 2	4 4 4 1 1 1 1 1 0 0 25	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hon L 3 3 3 9 0 0 0 0 0 0 0 1 1 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2 2 0 0 0 0	3 3 4 1 1 1 1 3 3 3 1 1 0 22
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP102L 18MEP103L 18PDM301L 18PDM301L 18PDM302L 18LEM110L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title	L 3 3 3 0 0 0 0 0 0 0 3 3 3 3 3 0 0 0 0	T 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Trs/ V T T	P 0 0 0 0 2 2 2 0 0 0 0 2 2 2 2 2 0	4 4 4 1 1 1 1 1 3 3 3 3 1	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Automation Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hot L 3 3 3 3 3 0 0 0 0 0 0 3 3 3 3 0 0 0 1 1 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 0 0 0 0 0 0	3 3 4 1 1 1 1 1 3 3 1 0 22
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP101L 18MEP103L 18PDM301L 18PDM301L 18PDM301L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Professional Elective – 4 Professional Elective – 5 Open Elective – 3 Open Elective – 4	L 3 3 3 3 0 0 0 0 0 3 3 3 3 3 0 0 0 0 0	T 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 2 2 2 0	4 4 4 1 1 1 1 3 3 3 3 1 0 0 25	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hot L 3 3 3 3 3 0 0 0 0 0 0 3 3 3 3 0 0 0 1 1 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 0 0 0 0 0 0	3 3 4 1 1 1 1 1 3 3 1 0 22
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP103L 18PDM301L 18PDM301L 18PDM302L 18LEM110L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Professional Elective – 4 Professional Elective – 5 Open Elective – 3 Open Elective – 4 Minor Project	L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 1 1 1 3 3 3 3 1 0 0 25	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hot L 3 3 3 3 3 0 0 0 0 0 0 3 3 3 3 0 0 0 1 1 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 0 0 0 0 0 0	3 3 4 1 1 1 1 1 3 3 1 0 22
18PYB201T 18MEC201T 18MEC202T 18MEC203L 18MEC204L 18MEC205L 18MEP101L 18MEP103L 18MEP103L 18PDM301L 18PDM302L 18LEM110L	Course Title Waves and Optics Machines and Mechanisms Heat and Mass Transfer Machine Dynamics Laboratory Simulation Laboratory Heat and Mass Transfer Laboratory Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Professional Elective – 4 Professional Elective – 5 Open Elective – 3 Open Elective – 4	L 3 3 3 0 0 0 0 0 3 3 3 3 3 3 3 3 3 3 3	T 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 2 0 0 0 0 2 2 2 2 2 2 2	4 4 4 1 1 1 1 3 3 3 3 1 0 0 25	Code 18MEC206T 18MEC207T 18MEC209L 18MEC210L 18MEC211L 18MEC350T 18MEP104L 18MEP105L 18MEP105L 18MEP106L 18PDH201T 18LEM109T	Semester - VI Course Title Metrology and Quality Control CAD/CAM Mechanical Engineering Design CAD / CAM Laboratory Metrology and Quality Control Laboratory Comprehension Professional Elective - 3 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	Hot L 3 3 3 3 0 0 0 0 0 0 0 3 3 3 3 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 2 2 2 0 0 0 0 2 2 0 0 0 0 0 0	3 3 4 1 1 1 1 1 3 3 1 0 22