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



12. B.Tech. in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning

12. (a) Mission of the Department

Mission Stmt - 1	To impart knowledge in cutting edge Computer Science and Engineering technologies in par with industrial standards.
Mission Stmt - 2	To collaborate with renowned academic institutions to uplift innovative research and development in Computer Science and
IVIISSION SUNC- 2	Engineering and its allied fields to serve the needs of society
Mission Stmt - 3	To demonstrate strong communication skills and possess the ability to design computing systems individually as well as part of a
IVIISSION SUM - 3	multidisciplinary teams.
Mission Stmt - 4	To instill societal, safety, cultural, environmental, and ethical responsibilities in all professional activities
Mission Stmt - 5	To produce successful Computer Science and Engineering graduates with personal and professional responsibilities and commitment
IVIISSION SUM - 5	to lifelong learning

12. (b) Program Educational Objectives (PEO)

PEO - 1	Graduates will be able to perform in technical/managerial roles ranging from design, development, problem solving to production support in software industries and R&D sectors.
PEO - 2	Graduates will be able to successfully pursue higher education in reputed institutions.
PEO - 3	Graduates will have the ability to adapt, contribute and innovate new technologies and systems in the key domains of Computer Science and Engineering.
PEO - 4	Graduates will be ethically and socially responsible solution providers and entrepreneurs in Computer Science and other engineering disciplines.
PEO - 5	Graduates will be able to explore recent technological developments related to Systems Engineering.
PEO - 6	Graduates will have the ability to explore research areas and produce outstanding contribution in various areas of Systems Engineering.

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

	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3	Mission Stmt 4	Mission Stmt 5
PEO - 1	Н	Н	H H	Н	Н
PEO - 2	- L	H	Н	H	Н
PEO - 3	Н	H	M	L	Н
PEO - 4	M	Н	M	Н	Н
PEO - 5 PEO - 6	H	H	M	M	Н
PEO - 6	М	H	H	Н	Н

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

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

						Progra	am Lear	ning Ou	tcomes	(PLO)					
		177			Gra	aduate At	tributes (0	GA)					Prog Out	gra <mark>m S</mark> pe comes (P	ecific PSO)
	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modem 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	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
PEO - 2	Н	Н	Н	Н	Н	L	L	Н	L	Н	L	Н	Н	Н	Н
PEO - 3	Н	Н	Н	Н	Н	L	L	L	L	L	Н	Н	Н	Н	Н
PEO - 4	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
PEO - 5	Н	L	L	Н	Н	L	L	L	L	L	Н	Н	Н	Н	Н
PEO - 6	L	Н	Н	Н	Н	Н	Н	L	L	L	L	L	Н	Н	L

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

PSO -	Program	Specific	Outcomes	(PSO)
130 -	1 10grain	Specific	Outcomes	$\mathbf{u} \cup \mathbf{u}$

	-01
PSO - 1	Ability to Utilize Artificial intelligence and Machine Learning Principles
PSO - 2	Create Machine Intelligence Algorithms
PSO - 3	Ability to Develop systems

12. (e) Program Structure: B.Tech. in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning

Total Learning Credits	3	C C 5 5 5 6 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Code	ductor Physics 3 1 2 ar Algebra 3 1 0 is and Complex Analysis 3 1 0 soundary Value Problems 3 1 0 neueing Theory 3 1 0 tics for Engineers 3 1 0 Total Learning Credits conal Core Courses (C) Hours/ Week Title L T P and Algorithms 3 0 2 pesign and Programming 3 0 2 gration and Architecture 3 0 2 sis of Algorithms 3 0 2	2 5 2 5 0 4 0 4 0 4 0 2 32
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RELEHTOJJ Chinese Reletion Chinese Reletion Chinese Reletion Chinese Reletion Reletion Chinese Reletion Reltion Reltion Reltion Reltion Reltion Reltion Reltion	ar Algebra 3 1 0 s and Complex Analysis 3 1 0 oundary Value Problems 3 1 0 eueuing Theory 3 1 0 titics for Engineers 2 0 0 Total Learning Credits Course Hours/ Week Title L T P not Algorithms 3 0 2 easign and Programming 3 0 2 easis of Algorithms 3 0 2 easis of Algorithms 3 0 2	1) 40 40 40 40 40 40 40 40 40 40 40 40 40
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18LEH103.1 French 18LEH104.1 German 2 0 2 3 18LEH105.1 Japanese 18LEH106.1 Korean 18PDH101T General Aptitude 18PDH101T Management Principles for Engineers 2 0 0 2 1 18MB202T Discrete Mathema 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18PDH102T Management Principles for Engineers 2 0 0 2 1 18CSC201.2 Maccade and Electronics Engineering 3 1 0 4 3 18CSC2031 Design and Analysis 18CSC3011 Programming for Problem Solving 3 0 4 4 18CSC2031 Maccade Program Analysis 18CSC3011 Promat Language Processing 3 0 0 3 18CSC3031 Matural Engineering Principles 3 0 0 3 18CSC3031 Competitive Profe. 18CSC3	oundary Value Problems 3 1 0 Jeueing Theory 3 1 0 Itics for Engineers 3 1 0 Total Learning Credits Course COURSE Title L T P Title L T P Design and Programming 3 0 2 vacation and Architecture 3 0 2 sis of Algorithms 3 0 2) 4) 4) 4) 2 32 32
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18LEH105J Japanese	Total Learning Credits 3 1 0 2 0 0) 4) 2 32 32
18LEH106J Korean 18PDH101T General Aptitude 2 0 0 2 1 18PDH101T General Aptitude 2 0 0 2 1 18PDH103T Social Engineering 2 0 0 2 1 1 18PDH103T Social Engineering 2 0 0 2 1 1 18PDH103T Social Engineering 2 0 0 2 1 1 18PDH103T Social Engineering 2 0 0 2 1 1 18PDH103T Employability Skills & Practices 0 0 2 1 1 18PDH103T Employability Skills & Practices 1 12 18PDH103T Employability Skills & Practices 1 18 18 18 18 18 18 18	2 0 0	2 32 Sk
18PDH101T General Aptitude	2 0 0	2 32 32 32 32 4
18PDH102T Management Principles for Engineers 2 0 0 2 2 18PDH103T Social Engineering 2 0 0 2 2 18PDH201T Employability Skills & Practices Total Learning Credits 12 12	Total Learning Credits	32 0 C
18PDH201T Employability Skills & Practices Total Learning Credits Title	Course Hours/ Week	k C
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Course	and Algorithms 3 0 2 Design and Programming 3 0 2 zation and Architecture 3 0 2 rsis of Algorithms 3 0 2	2 4
Course	Design and Programming 3 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Title	zation and Architecture 3 0 2 sis of Algorithms 3 0 2	
18 18 18 18 18 18 18 18	rsis of Algorithms 3 0 2	
18MES101L Engineering Graphics and Design 1 0 4 3 18ESE2101 Basic Electrical and Electronics Engineering 3 1 2 5 18MES103L Civil and Mechanical Engineering Workshop 1 0 4 3 18CSC205J Operating System 18CSS101J Programming for Problem Solving 3 0 2 4 18CSC205J Analog and Digital Electronics 3 0 2 4 18CSC205J Computer Communications 2 0 2 3 18CSC205J Computer Communications 2 0 2 3 18CSC205J Computer Communications 2 0 2 3 18CSC205J Computer Network Course Cours	sis of Algorithms 3 0 2	
18EES101J Basic Electrical and Electronics Engineering 3		
18CSC2051 18CS		
18CSC2071 17COMPRITE 17CO	ring and Project Management 3 0 2	
18CSS202J	mming Practice 3 0 2	2 4
18CSS202J Computer Communications 2 0 2 3 3 18CSC302J Computer Communications 2 0 2 3 3 18CSC303J Database Manager 18CSC30J Database Manager 1		
Total Learning Credits Total Learning Cred		
18CSC304J Compiler Design 18CSC304J Compiler Design 18CSC305J Artificial Intelligent 18CSC305L Competitive Profesion 18CSC306L Competitive Profesion 18CSC307L Competitive Profesion		
S. Professional Elective Courses (E)	3 0 2	
Course		
Course	0 1 0	
Course		
Code		
RocSe3877 Genetic algorithm and its Applications 3 0 0 3 3 18CSE3887 Artificial Neural networks 3 0 0 3 3 18CSE3897 Fuzzy Logic and its Applications 3 0 0 3 3 18CSE3907 Computer Vision 3 0 0 3 3 18CSE3537 Digital Image Processing 3 0 0 3 18CSE3597 Natural Language Processing 3 0 0 3 18CSE3597 Natural Language Processing 3 0 0 3 18CSE3587 Pattern Recognition Techniques 3 0 0 3 18CSE3587 Statistical Machine Learning 3 0 0 3 18CSE4807 Nature Inspired Computing Techniques 3 0 0 3 18CSE4807 Nature Inspired Computing Techniques 3 0 0 3 18CSE4827 Computational Neuroscience 3 0 0 3 18CSE4827 Intelligent Machining 3 0 0 3 18CSE4837 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3 18CSE4867 Robotics: Computational Motion Planning 3 0 0 3		
18CSE3887 Artificial Neural networks 3 0 0 0 3 18CSE3887 Artificial Neural networks 3 0 0 0 3 18CSE3897 Fuzzy Logic and its Applications 3 0 0 0 3 18CSE3907 Computer Vision 3 0 0 0 3 18CSE3907 Digital Image Processing 3 0 0 0 3 18CSE3597 Natural Language Processing 3 0 0 0 3 18CSE3587 Pattern Recognition Techniques 3 0 0 0 3 18CSE4797 Statistical Machine Learning 3 0 0 0 3 18CSE4807 Nature Inspired Computing Techniques 3 0 0 0 3 18CSE48017 Applied Machine Learning 3 0 0 0 3 18CSE48017 Applied Machine Learning 3 0 0 0 3 18CSE48017 Intelligent Machining 3 0 0 0 3 18CSE48017 Intelligent Machining 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Advanced Algorithms 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0 0 0 3 18CSE48017 Robotics: Computational Motion Planning 3 0		
18CSE388T Artificial Neural networks 3 0 0 3 18CSE389T Fuzzy Logic and its Applications 3 0 0 3 18CSE399T Computer Vision 3 0 0 3 18CSE393T Digital Image Processing 3 0 0 3 18CSE353T Digital Image Processing 3 0 0 3 18CSE353T Pattern Recognition Techniques 3 0 0 3 18CSE479T Statistical Machine Learning 3 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 3 18CSE480T Applied Machine Learning 3 0 0 3 18CSE481T Applied Machine Learning 3 0 0 3 18CSE483T Intelligent Machine Statistical Machine Statist	Total Learning Credits	51
18CSE389T Fuzzy Logic and its Applications 3 0 0 3 18CSE339T Computer Vision 3 0 0 3 18CSE353T Digital Image Processing 3 0 0 3 18CSE353T Natural Language Processing 3 0 0 3 18CSE353T Pattern Recognition Techniques 3 0 0 3 18CSE358T Statistical Machine Learning 3 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 3 18CSE481T Applied Machine Learning 3 0 0 3 18CSE482T Computational Neuroscience 3 0 0 3 18CSE482T Intelligent Machining 3 0 0 3 18CSE483T Nature Inspired Computing Techniques 3 0 0 3 18CSE483T Intelligent Machining 3 0 0 3 18CSE483T Robotics: Computational Motion Planning 3 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Course Total Learning Credits Total Learning C	51. (1) 0 (0)	
18CSE390T Computer Vision 3 0 0 3 18CSE353T Digital Image Processing 3 0 0 3 18CSE353T Digital Image Processing 3 0 0 3 18CSE359T Natural Language Processing 3 0 0 3 18CSE358T Pattern Recognition Techniques 3 0 0 3 18CSE490T Nature Inspired Computing Techniques 3 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 3 18CSE482T Computational Neuroscience 3 0 0 3 18CSE482T Computational Neuroscience 3 0 0 3 18CSE483T Intelligent Machining 3 0 0 3 18CSE484T Deep Learning 3 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Course Total Learning Credits Total Lea	Elective Courses (O)	_
18CSE353T Digital Image Processing 3 0 0 0 3 18CSE359T Natural Language Processing 3 0 0 0 3 18CSE358T Pattern Recognition Techniques 3 0 0 0 3 18CSE479T Statistical Machine Learning 3 0 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 0 3 18CSE480T Applied Machine Learning 3 0 0 0 3 18CSE482T Computational Neuroscience 3 0 0 0 3 18CSE483T Intelligent Machining 3 0 0 0 3 18CSE483T Intelligent Machining 3 0 0 0 3 18CSE485T Deep Learning 3 0 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 0 3 18CSE486T Advanced Algorithms 3 0 0 0 3 18CSE486T Advanced Algorithms 3 0 0 0 3 18CSE486T Course 18CSE486T Course C	Course Hours/ Week	
18CSE359T Natural Language Processing 3 0 0 0 3 18CSE358T Pattern Recognition Techniques 3 0 0 0 3 18CSE479T Statistical Machine Learning 3 0 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 0 3 18CSE480T Applied Machine Learning 3 0 0 0 3 18CSE481T Applied Machine Learning 3 0 0 0 3 18CSE482T Computational Neuroscience 3 0 0 0 3 18CSE483T Intelligent Machining 3 0 0 0 3 18CSE483T Deep Learning 3 0 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Course Total Learning Credits Thirdsatcutic Machine Industry Higher Course 18CSC103T Mobile Application 18CSC103T Mobile Application 18CSC103T Mobile Application 18CSC103T Mobile Application 18CSC103T Applied Application 1	Title L T P	_
18CSE358T Pattern Recognition Techniques 3 0 0 3 18CSE479T Statistical Machine Learning 3 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 3 18CSE480T Applied Machine Learning 3 0 0 3 18CSE482T Applied Machine Learning 3 0 0 3 18CSE482T Computational Neuroscience 3 0 0 3 18CSE483T Intelligent Machining 3 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Course Total Learning Credits Total Learning Credits		3
18CSE479T Statistical Machine Learning 3 0 0 3 18CSE480T Nature Inspired Computing Techniques 3 0 0 3 18CSE491T Applied Machine Learning 3 0 0 3 18CSE491T Applied Machine Learning 3 0 0 3 18CSE492T Computational Neuroscience 3 0 0 3 18CSE483T Intelligent Machining 3 0 0 3 18CSE484T Deep Learning 3 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 7. Project World Total Learning Credits 18	Development 3 0 0	3
18CSE480T Statistical Machine Learning	and Simulation 3 0 0) 3
18CSE481T Applied Machine Learning		
18CSE482T Computational Neuroscience		
18CSE483T Intelligent Machining 3 0 0 3 18CSE484T Deep Learning 3 0 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 18CSE486T Advanced Algorithms Total Learning Credits 18 Course Cour		
18CSE484T Deep Learning	ng Open Source Tool 3 0 0	3
18CSE484T Deep Learning 3 0 0 3 18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 Total Learning Credits 18 Course	3 0 0) 3
18CSE485T Robotics: Computational Motion Planning 3 0 0 3 18CSE486T Advanced Algorithms 3 0 0 3 Total Learning Credits 18 Total Learning Credits Course Course	Total Learning Credits	12
18CSE486T Advanced Algorithms 3 0 0 3 7. Project Wor Industry / Higher Course	Total Learning Oleuits	12
Total Learning Credits 18 Industry / Higher Course	rk, Seminar, Internship In	
Course	Technical Institutions (P)	
	Course Hours/ Week	k
	Title L T P	
		- 0
8. Mandatory Courses (M) 18CSP101L Massive Open On		
O L TILL TO D O TOUS INCUSTRAL TRAINING	0 0 2	? 1
40DDM4041 Desfectional Chille and Desetions		
TOCST 104L Wassive Open On		
() () Z () TOOSI TOSE INCUSTRAL TRAINING	<u> - </u>	? 1
18PDM2031 Entrepreneural Skill Development 18CSP106L Seminar - II		
18PDM202L Critical and Creative Thinking Skills 0 0 2 0 18CSP107L Minor Project		
18PDM204L Business Basics for Entrepreneurs 18CSP108L Internship (4-6 we	0 0 6	3
18PDM301L Analytical and Logical Thinking Skills		
18PDM302L Entrepreneurship Management 0 0 2 0 18CSP109L Project 18CSP110L Semester Internsh	hin 0 0 20	0 10
18LEM101T Constitution of India 1 0 0 0	Total Learning Credits	15
18LEM102J Value Education	Total Learning Cleuits	13
19CNM1011 Dhysical and Mantal Health using Vago 0 0 2 0		
101 EM100T Indian Traditional Knowledge 1 0 0 0	datory Courses (M)	
18LEM110L Indian Art Form 0 0 2 0 Code	A December 1997	_
19CVM101T Environmental Science 1 0 0 0 Code	Course Hours/ Week	, C
18C YM TOTT Environmental Science T O O O 18GNM102L NSS	Course Hours/ Week Title L T P	
18GNM103L NCC		2 0

12. (f) Program Articulation: B.Tech. in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning

				Р	rog	ram	Lea	arni	ng (Outo	com	es ((PL	O)		
					Ī		uate								PSO	,
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	ndividual & Team Work	Communication	Project Mgt. & Finance	ife Long Learning	PSO - 1	PSO - 2	PSO - 3
18CSS101J	Programming for Problem Solving	Н	Н	М	M	Н	Ĺ	L	М	Н	М	Ĺ	Н	Ĺ	H	H
	Data Structures and Algorithms	Н	Н	Н	Н	М	L	L	М	Н	М	М	Н	L	Н	Н
18CSC202J	Object Oriented Design and Programming	Н	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	L	Н	Н
18CSC203J	Computer Organization and Architecture	Н	М	Н	М	L	L	L	М	L	L	L	М	Н	М	М
18CSC204J	Design and Analysis of Algorithms	Н	Н	Н	Н	М	М	L	М	М	М	М	Н	L	Н	Н
18CSC205J	Operating Systems	H	Н	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
18CSC206J	Software Engineering and Project Management	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	L	Н	М
18CSC207J	Advanced Programming Practice	Н	Н	М	М	Н	L	L	М	Н	М	L	Н	L	Н	Н
18CSC301T	Formal Language and Automata	Н	Н	Н	Н	L	L	L	L	М	М	L	Н	Н	Н	Н
18CSC302J	Computer Networks	Н	Н	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
18CSC303J	Database Management Systems	Н	Н	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
18CSC304J	Compiler Design	Н	Н	Н	Н	М	L	L	L	М	М	L	Н	Н	Н	Н
	Artificial Intelligence	Н	Н	Н	Н	М	М	L	L	М	М	L	Н	Н	Н	Н
	Competitive Professional Skills-I	Н	Н	Н	Н	Н	L	L	М	Н	Н	М	Н	Н	Н	Н
	Competitive Professional Skills-II	Н	Н	Н	Н	Н	L	L	М	Н	Н	М	Н	Н	Н	Н
	Competitive Professional Skills-III	Н	Н	Н	Н	Н	L	L	М	Н	Н	М	Н	Н	Н	Н
	Genetic algorithm and Machine Learning	Н	Н	Н	Н	Н	М	L	М	Н	М	L	Н	L	Н	Н
	Artificial Neural networks	Н	Н	Н	М	Н	М	L	М	Н	М	L	Н	L	Н	Н
	Fuzzy Logic for Machine Learning	H	H	H	H	H	M	L	M	H	M	L	H	L	H	Н
	Computer Vision Digital Image Processing	Н	Н	Н	М	Н	M	L	M	Н	M	M	Н	L	Н	H
	Natural Language Processing	Н	Н	Н	Н	H	Н	L	M	Н	M	M	Н	M	Н	Н
	Pattern Recognition Techniques	Н	Н	Н	M	Н	M	L	M	Н	M	L	Н	L	Н	Н
18CSE479T	ů i	Н	Н	Н	Н	М	M	L	M	Н	M	L	Н	M	Н	Н
	Statistical Machine Learning	Н	Н	Н		Н	M	M	Н	Н		M	Н	M	Н	Н
	Nature Inspired Computing Techniques	Н	Н	Н	H	Н	M	L	М	Н	M	L	Н	M	Н	Н
	Applied Machine Learning		Н	Н	Н	Н		=	M	Н		M	Н		Н	
	Computational Neuroscience	Н					M	L			М			М		Н
	Intelligent Machining	Н	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	М	Н	Н
	Deep Learning	Н	Н	Н	Н	Н	М	L	М	Н	М	L	Н	L	Н	Н
	Robotics: Computational Motion Planning	Н	Н	Н	Н	Н	М	М	М	Н	Н	М	Н	М	Н	Н
	Advanced Algorithms	Н	Н	Н	Н	М	L	L	М	Н	М	М	Н	Н	Н	Н
	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
18CSP103L		Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18CSP104L	Massive Open Online Course - II	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18CSP105L	Industrial Training-II	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18CSP106L		Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
18CSP107L	Minor Project	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
18CSP108L	Internship (4-6 weeks)	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
18CSP109L	Project	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
18CSP110L	Semester Internship	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
	Program Average	Н	Н	М	Н	М	L	М	L	М	М	М	Н	М	М	М

12. (g) Implementation Plan: B.Tech. in Computer Science and Engineering with Specialization in Artificial Intelligence and Machine Learning

	Semester - I				ı		Semester - II	_			ı
Code	Course Title	Hou	urs/ V	Veek P	С	Code	Course Title	Hou	rs/ W	Veek P	С
18LEH101J		2	0	2	3		Chinese / French / German / Japanese/ Korear		0	2	3
	Calculus and Linear Algebra	3	1	0	4		Advanced Calculus and Complex Analysis	3	1	0	4
	Physics: Semiconductor Physics	3	1	2	5	18CYB101J		3	1	2	5
	Engineering Graphics and Design	1	0	4	3		Programming for Problem Solving	3	0	4	5
	Basic Electrical and Electronics Engineering	3	1	2	5		Civil and Mechanical Engineering Workshop	1	0	4	3
	Professional Skills and Practices	0	0	2	0		General Aptitude	0	0	2	1
	Constitution of India	1	0	2	0		Value Education	1	0	1	0
TOGNIMITUIL	Physical and Mental Health using Yoga	0	0	2	0 20	18GNM102L		0	0	2	0
	Total Learning Credit	S			20	18GNM103L 18GNM104L		- 0	U	2	U
							Total Learning Credits	3			21
	Semester - III				,		Semester - IV				,
Code	Course Title	Hou	urs/V	Veek P	С	Code	Course Title	Hou	rs/ W	Veek P	С
18MAR201T	Transforms and Boundary Value Problems	3	1	0	4	18MAR204T	Probability and Queueing Theory	3	1	0	4
18BTB101T		2	0	0	2	18CSS202.1	Computer Communications	2	0	2	3
	Analog and Digital Electronics	3	0	2	4		Design and Analysis of Algorithms	3	0	2	4
18CSC201.I	Data Structures and Algorithms	3	0	2	4		Operating Systems	3	0	2	4
	Object Oriented Design and Programming	3		2	4		Software Engineering and Project				
	Computer Organization and Architecture	3	0	2	4	18CSC206J	Management	3	0	2	4
	Management Principles for Engineers	2	0	0	2	18CSC207J	Advanced Programming Practice	3	0	2	4
18PDM201L	Competencies in Social Skills	0	0	2	0		Competitive Professional Skills-I	0	0	2	1
18DDM2021	Entrepreneurial Skill Development	70	U	2	0	18PDH103T	Social Engineering	2	0	0	2
TOFDIVIZUOL		_			24	18PDM202L	Critical and Creative Thinking Skills	0	0	2	0
TOP DIVIZUOL	Total Learning Credit	5						7 0	U		U
TOP DIVIZOSE	Total Learning Credit	5				18PDM204L	Business Basics for Entrepreneurs				
TOF DIVIZOSE	Total Learning Credit	5					Business Basics for Entrepreneurs Environmental Science	1	0	0	0
TOP DIVIZOSE	Total Learning Credit	.5		K					0	0	<i>0</i> 26
TOP DIVIZOSE	Total Learning Credit	5		3			Environmental Science		0	0	
TOP DINIZOSE				3			Environmental Science Total Learning Credits		0	0	
TOF DIVIZOSE	Semester - V			3	2		Environmental Science	5			
Ħ	Semester - V	Hou	urs/ W		25	18CYM101T	Environmental Science Total Learning Credits Semester - VI	Hou	rs/ W	Veek	26
Code	Semester - V Course Title	Hou	Т	Р	С	18CYM101T	Environmental Science Total Learning Credits Semester - VI Course Title	Hou	rs/ W	Veek	26 C
Code 18MAB302T	Semester - V Course Title Discrete Mathematics for Engineers	Hou L	T	P 0	C 4	18CYM101T Code 18CSC303J	Total Learning Credits Semester - VI Course Title Database Management Systems	Hou L 3	rs/ W T	Veek P 2	26 C
Code 18MAB302T 18CSC301T	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata	Hot L 3	T 1 0	P 0 0	C 4 3	Code 18CSC303J 18CSC304J	Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design	Hou L 3	rs/ W T 0	Veek P 2 2	26 C 4 4
Code 18MAB302T 18CSC301T 18CSC302J	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks	Hot L 3 3 3 3	T 1 0	P 0 0 2	C 4 3 4	Code 18CSC303J 18CSC304J 18CSC305J	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence	Hou L 3 3	T 0 0 0	Veek P 2 2 2 2	C 4 4 4
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II	Hot L 3 3 3 0	T 1 0 0	P 0 0 2 2	C 4 3 4 1	Code 18CSC303J 18CSC305J 18CSC305J 18CSC350T	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension	Hou L 3 3 3 0	T 0 0 0 1	Veek P 2 2 2 0	C 4 4 4 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L	Semester - V Course Title Discrete Mathematics Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1	Hou L 3 3 0 0	T 1 0 0 0	P 0 0 2 2 0	C 4 3 4 1 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC350T	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III	Hou L 3 3 3 0 0 0	T 0 0 0 1 0	Veek P 2 2 2 0 2 2	C 4 4 1 1 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2	Hot L 3 3 3 0 0 3 3 3 3	T 1 0 0 0 0	P 0 0 2 2 0 0 0	C 4 3 4 1 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC350T	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective – 3	Hou L 3 3 0 0	T 0 0 0 1 0 0 0	Veek P 2 2 2 0 2 0 0	C 4 4 1 1 3
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective - 1 Professional Elective - 2 Open Elective - 1	Hou L 3 3 0 0	T 1 0 0 0	P 0 0 2 2 0	C 4 3 4 1 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC350T	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4	Hou L 3 3 3 0 0 0 3 3 3 3	T 0 0 0 1 1 0 0 0 0	Veek P 2 2 2 0 0 0 0	C 4 4 1 1 1 3 3 3
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I	Hotel L 3 3 3 3 0 0 3 3 3 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0 0 0	C 4 3 4 1 3 3 3 3 3	Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T 18CSC307L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2	Hou L 3 3 0 0	T 0 0 0 1 0 0 0	Veek P 2 2 2 0 2 0 0	C 4 4 1 1 3
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I	Hot L 3 3 3 0 0 3 3 3 3	T 1 0 0 0 0	P 0 0 2 2 0 0 0	C 4 3 4 1 3 3 3	Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II	Hou L 3 3 3 0 0 0 3 3 3 3 3	T 0 0 0 1 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 0	26 C 4 4 1 1 3 3 3
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Industrial Training-I Seminar - I	Hotel L 3 3 3 3 0 0 3 3 3 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0 0 0	C 4 3 4 1 3 3 3 3 3	Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T 18CSC307L 18CSC9104L 18CSP105L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II	Hou L 3 3 3 0 0 0 3 3 3 3	T 0 0 0 1 1 0 0 0 0	Veek P 2 2 2 0 0 0 0	C 4 4 1 1 1 3 3 3
Code 18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2 Open Elective – 1 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills	Hotel L 3 3 3 3 0 0 3 3 3 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0 0 0	C 4 3 4 1 3 3 3 3 3	Code 18CSC303J 18CSC304J 18CSC305T 18CSC350T 18CSC307L 18CSP104L 18CSP105L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II	Hou L 3 3 3 0 0 0 3 3 3 3 0 0 0	T 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2	C 4 4 4 1 1 1 3 3 3 3 1 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18CPDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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	Hou L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 2 2 0 0 0	C 4 4 3 4 1 1 3 3 3 3 1 1	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	Hou L 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0 0	T 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18CPDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge	Hou L 3 3 3 3 0 0 3 3 3 3 0 0	T 1 0 0 0 0 0 0	P 0 0 2 2 0 0 0 0 2	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 0	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form	Hou L 3 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0	T 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 0 0
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18CPDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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	Hou L 3 3 3 3 0 0 3 3 3 3 0 0	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 2 2 0 0 0	C 4 4 3 4 1 1 3 3 3 3 1 1	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	Hou L 3 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0	T 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18PDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge	Hou L 3 3 3 3 0 0 3 3 3 3 0 0	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 2 2 0 0 0	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 0	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form	Hou L 3 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0	T 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 0 0
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18PDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge	Hotel L 3 3 3 3 3 3 3 3 3 3 3 3 3 5 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 0 0 0 2 2 2 0 0 0 0 0 0 0	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 0	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form	Hou L 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 0 0
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CSP103L 18CPDM301L	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit	Hotel L 3 3 3 3 3 3 3 3 3 3 3 3 3 5 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 0 0 0 2 2 2 0 0 0 0 0 0 0	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 0	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CSP106L	Environmental Science Total Learning Credits Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits	Hou L 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2	C 4 4 4 1 1 3 3 3 3 1 1 1 0 0
Code 18MAB302T 18CSC3001T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 18PDM301L 18PDM301L 18PDM301L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title	Hoo L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 0 0 0 2 2 0 0 0 0 0 0 0 0	C 4 3 3 4 1 1 3 3 3 3 1 1 0 0 0 22	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18CPDH201T 18LEM110L Code	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	26 4 4 1 1 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 18PDM301L 18PDM301L 18PDM301L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective - 5	Hotel L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 2 2 0 0 0 0 2 2 0 0 0 0 0 0 0 0	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 22 C C 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 3 3 3 3 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	C 4 4 4 1 1 3 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP103L 18PDM301L 18PDM302L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective - 5 Professional Elective - 6	Hou L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 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	C 4 4 3 4 4 1 3 3 3 3 1 1 0 0 0 22 C C 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	26 4 4 1 1 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 18CPDM302L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective – 5 Professional Elective – 6 Open Elective – 3	Hot L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 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	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 22 C C 3 3 3 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	26 4 4 1 1 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM302L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective – 5 Professional Elective – 6 Open Elective – 3 Minor Project	Hou L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 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	C 4 4 3 4 4 1 3 3 3 3 1 1 0 0 0 22 C C 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	26 4 4 1 1 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 18PDM301L 18PDM302L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective – 5 Professional Elective – 6 Open Elective – 3 Minor Project Internship (4-6 weeks)	Hot L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 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	C 4 4 3 4 4 1 1 3 3 3 3 3 1 1 C C C 3 3 3 3 3 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	26 4 4 1 1 3 3 3 1 1 0 25
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 18PDM301L 18PDM302L 18LEM109T Code	Semester - V Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II 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 Traditional Knowledge Total Learning Credit Semester - VII Course Title Professional Elective – 5 Professional Elective – 6 Open Elective – 3 Minor Project	Hot L 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 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	C 4 4 3 4 4 1 1 3 3 3 3 1 1 0 0 0 22 C C 3 3 3 3 3 3	Code 18CSC303J 18CSC305J 18CSC305J 18CSC307L 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L Code 18CSP109L	Semester - VI Course Title Database Management Systems Compiler Design Artificial Intelligence Comprehension Competitive Professional Skills-III Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Art Form Total Learning Credits Semester - VIII Course Title	Hou L 3 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0 0 2 2 2 2 2 2 2 P P P	C 4 4 4 1 1 3 3 3 3 1 1 0 25