# **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



# 18. B.Tech. in Computer Science and Engineering with Specialization in Internet of Things

#### 18. (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 SUNC-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 SUNC - 3	to lifelong learning

#### 18. (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
PEU - 3	Engineering.
PEO - 4	Graduates will be ethically and socially responsible solution providers and entrepreneurs in Computer Science and other engineering
PEU - 4	disciplines.
PEO - 5	Graduates will possess skills to design computing systems based on Internet of Things
PEO - 6	Graduates will havethe ability to develop tools incorporating the skills acquired in Internet of Things domain.

#### 18. (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	H	H	H	H	Н
PEO - 2	L	Н	H	Н	Н
PEO-3	H	Н	M	L L	H
PEO - 4	M	H	M	Н	Н
PEO-5	Н	Н	Н	Н	Н
PEO - 6	Н	H	H	Н	Н

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

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

						Progra	am Lear	ning Ou	tcomes	(PLO)					
		1	13		Gra	aduate At	tributes (C	GA)				-7		gra <mark>m S</mark> pe comes (P	
	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	H	H	H	Ĥ	H	H	H	H	H	Н	H	H	H	H	H
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	L	L	L	Н	L	L	L	L	L	Н	Н	Н	Н	Н

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

#### PSO – Program Specific Outcomes (PSO)

PSO - 1	Ability to Utilize Hardware / Core CS Principles
PSO - 2	Ability to Create Software & Programming
PSO - 3	Ability to Develop Internet of Things based systems

## 18. (e) Program Structure: B.Tech. in Computer Science and Engineering with Specialization in **Internet of Things**

	nternet of Things										
	1. Humanities & Social Sciences						2. Basic Science Courses (B)	1			
Course	including Management Courses (H)  Course	Ног	ırs/ W	look		Course	Course	Hou	rs/ V	/eek	_
Code	Title	L	T	P	С	Code	Title Physics: Semiconductor Physics	3	T 1	2	<u>C</u>
18LEH101J		2	0	2	3	18CYB103J		3	1		5
18LEH101J			U		J			3	1	0	4
18LEH103J							Calculus and Linear Algebra		1		4
18LEH103J		2	0	2	3		Advanced Calculus and Complex Analysis Transforms and Boundary Value Problems	3		0	4
18LEH104J		- 4	U	2	J		Probability and Queueing Theory	3	1	0	4
18LEH105J		-		ł	1				1		
		0	0	2	1		Discrete Mathematics for Engineers	3		0	4
	General Aptitude	2	0	0	2	18BTB101T		2	0	0	2
100001021	Management Principles for Engineers Social Engineering	2	0	0	2		Total Learning Credits	i			32
	Employability Skills & Practices	0	0	2	1		12 ( 1 10 0 (0)				
TOPDHZUTT	Total Learning Credits		U		12	-	4. Professional Core Courses (C)	1			
	Total Learning Credits	,			12	Course	Course		rs/ V		_
	3. Engineering Science Courses (S)					Code	Title	L	Τ	Р	С
Course	Course	Hai	ırs/ W	/aalı			Data Structures and Algorithms	3	0	2	4
		_			-		Object Oriented Design and Programming	3	0	2	4
Code	Title	L	T	P	C		Computer Organization and Architecture	3	0	2	4
	Engineering Graphics and Design	1	0	4	3		Design and Analysis of Algorithms	3	0	2	4
	Basic Electrical and Electronics Engineering	3	1	2	5		Operating Systems	3	0	2	4
	Civil and Mechanical Engineering Workshop	1	0	4	3	18CSC206J	Software Engineering and Project Management		0	2	4
	Programming for Problem Solving	3	0	4	5	18CSC207J	Advanced Programming Practice	3	0	2	4
	Analog and Digital Electronics	3	0	2	4	18CSC301T	Formal Language and Automata	3	0	0	3
18CSS202J	Computer Communications	2	0	2	3		Computer Networks	3	0	2	4
	Total Learning Credits	•			23		Database Management Systems	3	0	2	4
							Compiler Design	3	0	2	4
	5. Professional Elective Courses (E)						Artificial Intelligence	3	0	2	4
	(Any 6 Elective Courses)					18CSC350T	Comprehension	0	1	0	1
		H	lour	s/		18CSC208L	Competitive Professional Skills-I	0	0	2	1
Course	Course		Wee			18CSC306L	Competitive Professional Skills-II	0	0	2	1
Code	Title	L	Τ	Р	С	18CSC307L	Competitive Professional Skills-III	0	0	2	1
	Data Centric Networks	3	0	0	3		Total Learning Credits				51
	Internet of Things Architecture and Protocols	3	0	0	3						
	Machine Learning-I	3	0	0	3		6. Open Elective Courses (O)				
	Artificial Neural Networks	3	0	0	3	Course	Course	Hou	rs/ W	/eek	
	Network Programming	3	0	0	3	Code	Title	L	Т	Р	С
	Wireless Sensor Networks	3	0	0	3	18CSO101T	IT Infrastructure Management	3	0	0	3
	Software Defined Networks	3	0	0	3		Mobile Application Development	3	0		3
18CSE445T	Internet of Things Security	3	0	0	3		System Modeling and Simulation	3	0	0	3
18CSE458T	Wireless and Mobile Communication	3	0	0	3		Free and Open Source Softwares	3	0	0	3
18CSE446T	Advanced Database Systems	3	0	0	3		Android Development	3	0	0	3
18CSE447T	Edge Computing	3	0	0	3						
	Energy Management for Internet of Things	_	^	^	_		Data Analysis using Open Source Tool	3	0	0	3
	devices	3	0	0	3	18CSO107T	IOS Development	3	0	0	3
18CSE490T	Big Data Visualization	3	0	0	3		Total Learning Credits				12
	Total Learning Credits	;			18						
							7. Project Work, Seminar, Internship In				
	771 173				- I		Industry / Higher Technical Institutions (P)				
		4	-	٠.		Course	Course	Hou	rs/ W	/eek	
	8. Mandatory Courses (M)					Code	Title	L	Τ	Р	С
Code	Course Title	L	Т	Р	С		Massive Open Online Course - I				
	Professional Skills and Practices	0	0	2	0		Industrial Training-I	0	0	2	1
	Competencies in Social Skills					18CSP103L		1			
	Entrepreneurial Skill Development	0	0	2	0		Massive Open Online Course - II				
	Critical and Creative Thinking Skills	^	^	^	^		Industrial Training-II	0	0	2	1
18PDM204L	Business Basics for Entrepreneurs	0	0	2	0		Seminar - II	Ť	-	_	
18PDM301L	Analytical and Logical Thinking Skills	^	Δ	0	^		Minor Project	_	_	_	_
	Entrepreneurship Management	0	0	2	0		Internship (4-6 weeks)	0	0	6	3
	Constitution of India	1	0	0	0	18CSP109L		_	_	00	40
18LEM102J	Value Education	1	0	1	0		Semester Internship	0	0	20	10
	Physical and Mental Health using Yoga	0	0	2	0		Total Learning Credits	,	_		15
18GNM102L	,										
18GNM103L		0	0	2	0		8. Mandatory Courses (M)				
18GNM104L						Course	Course	Но	rs/ W	/eek	
	Indian Traditional Knowledge	1	0	0	0	Code	Title	I	T T	P	С
		1					Indian Art Form	0	0		0
								1			
						18CYM1011	Environmental Science	1	0	0	0

## 18. (f) Program Articulation: B.Tech. in Computer Science and Engineering with Specialization in Internet of Things

				Р	rog	ram	Lea	arni	ng (	Outo	com	es (	PLO	<b>O</b> )		
						Grad	uate	Attrik	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
18CSS101J	Programming for Problem Solving	Н	Н	М	М	Н	Ĺ	L	М	Н	М	L	Н	L	Н	Н
18CSC201J	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
	Design and Analysis of Algorithms	Н	Н	Н	Н	М	М	L	М	М	М	М	Н	L	Н	Н
	Operating Systems	Н	Н	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
	Software Engineering and Project Management	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	L	Н	М
	Advanced Programming Practice	Н	Н	М	М	Н	L	L	М	Н	М	L	Н	L	Н	Н
	Formal Language and Automata	Н	Н	Н	Н	L	L	L	L	М	М	L	Н	Н	Н	Н
	Computer Networks	Н	Н.	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
	Database Management Systems	Н	Н	Н	Н	Н	М	L	М	Н	М	М	Н	Н	Н	М
	Compiler Design	Н	Н	Н	Н	М	1	Ĺ	L	М	М	L	Н	Н	Н	Н
	Artificial Intelligence	Н	Н	Н	Н	M	М	L	L	M	M	L	Н	Н	Н	Н
	Competitive Professional Skills-I	Н	Н	Н	Н	Н	L	L	М	Н	Н	М	Н	Н	Н	H
	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
	Data Centric Networks	Н	Н	Н	Н	Н	М	М	М	Н	Н	М	Н	Н	Н	Н
18CSE345T	Internet of Things Architecture and Protocols	Н	Н	Н	Н	Н	М	Н	Н	М	Н	Н	М	Н	Н	Н
18CSE392T	Machine Learning-I	Н	Н	Н	М	Н	М	L	М	Н	М	L	Н	L	Н	Н
18CSE388T	Artificial Neural Networks	Н	Н	Н	М	Н	М	L	М	Н	М	L	Н	L	Н	Н
	Network Programming	Н	Н	Н	Н	Н	М	М	М	M	Н	Н	Н	Н	Н	Н
	Cloud Computing and Architecture	H	Н	Н	Н	H	М	Н	Н	М	Н	Н	М	Н	Н	Н
	Wireless Sensor Networks	Н	Н	Н	Н	М	М	М	М	М	Н	L	Н	Н	Н	Н
	Software Defined Networks	Н	Н	Н	Н	Н	М	М	М	М	Н	М	Н	Н	Н	Н
	Internet of Things Security	Н	Н	Н	Н	Н	М	М	Н	Н	Н	М	Н	Н	Н	Н
	Wireless and Mobile Communication	Н	Н	Н	Н	M	Н	Н	Н	М	Н	М	Н	Н	Н	Н
		H	Н	Н	H	Н	Н	H	Н	Н	Н	H	H	Н	Н	Н
	Edge Computing  Energy Management for Internet of Things Devices	Н	H	H	Н	H	H	Н	H	H	H	М	Н	H	H	H
	Data Analysis and Visualization	М	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	М	Н	Н
	Massive Open Online Course - I	Н	М	М	М	М	M	M	М	Н	Н	Н	М	Н	Н	Н
	Industrial Training-I	Н	М	M	M	M	M	M	M	Н	Н	Н	M	Н	Н	Н
18CSP103L		- 1														
	Seminar - I	Н	М	М	М	M	М	М	M	Н	Н	Н	М	Н	Н	Н
	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	Seminar - II	Н	М	М	М	М	М	М	М	Н	Н	Н	М	Н	Н	Н
	Minor Project	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
	Internship (4-6 weeks)	Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
18CSP109L	Project 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

## 18. (g) Implementation Plan: B.Tech. in Computer Science and Engineering with Specialization in Internet of Things

	Samaatan I					1	Compoten II				
	Semester - I	Шол	uro/N	Veek			Semester - II	Цал	uro/N	Veek	ı
Code	Course Title	L	Т	Р	С	Code	Course Title	L	Т	Р	С
18LEH101J		2		2	3		Chinese / French / German / Japanese/ Korean		0	2	3
18MAB1011	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	2	3 5		Programming for Problem Solving	3	0	4	5
	Basic Electrical and Electronics Engineering Professional Skills and Practices	0	0	2	0		Civil and Mechanical Engineering Workshop  General Aptitude	0	0	2	1
	Constitution of India	1	0	0	0		Value Education	1	0		0
	Physical and Mental Health using Yoga	0	0	2	0	18GNM102J		-	U	1	U
TOOTVINTOTE	Total Learning Credit		U		20	18GNM103L		0	0	2	0
	Total Econning Orean	<u> </u>			20	18GNM104L		ď	"		
						TOOMMTOTE	Total Learning Credits	<u> </u>			21
	Semester - III						Semester - IV				
Codo	Course Title	Hou	urs/ V	Veek	_	Codo	Course Title	Ηοι	urs/ V	Veek	С
Code	Course Title	L	Т	Р	С	Code	Course Title	L	Τ	Р	
18MAB201T	Transforms and Boundary Value Problems	3	1	0	4	18MAB204T	Probability and Queueing Theory	3	1	0	4
18BTB101T	Biology	2	0	0	2	18CSS202J	Computer Communications	2	0	2	3
	Analog and Digital Electronics	3	0	2	4		Design and Analysis of Algorithms	3	0	2	4
	Data Structures and Algorithms	3	0	2	4	18CSC205J	Operating Systems	3	0	2	4
	Object Oriented Design and Programming	3	0	2	4	18CSC206J	Software Engineering and Project	3	0	2	4
	Computer Organization and Architecture	3	0	2	4		Management		1		
	Management Principles for Engineers	2	0	0	2		Advanced Programming Practice	3	0	2	4
	Competencies in Social Skills	0	0	2	0		Competitive Professional Skills-I	0	0	2	1
	Entrepreneurial Skill Development		Ŭ	_			Social Engineering	2	0	0	2
18PDM203L						III 18PDM2021	Critical and Creative Thinking Skills		_	2	0
18PDM203L	Total Learning Credit	S			24			<b>-1</b> ()	1 ()		
18PDM203L		S			24	18PDM204L	Business Basics for Entrepreneurs	0	0		
18PDM203L		S		Ä	24	18PDM204L		1	0	0	0
18PDM203L		S		1	24	18PDM204L	Business Basics for Entrepreneurs Environmental Science	1			0 26
ij	Total Learning Credit  Semester - V		urs/V	Veek		18PDM204L 18CYM101T	Business Basics for Entrepreneurs Environmental Science Total Learning Credits Semester - VI	1		0	0 26
18PDM203L Code	Total Learning Credit		urs/V	Week P	24 C	18PDM204L 18CYM101T	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title	1	0	0	0 26
Code 18MAB302T	Semester - V Course Title Discrete Mathematics for Engineers	Hou L	T 1	P 0	C 4	18PDM204L 18CYM101T	Business Basics for Entrepreneurs Environmental Science Total Learning Credits Semester - VI	Hou L 3	0 urs/ V T 0	0 Veek P	0 26
Code 18MAB302T 18CSC301T	Semester - V  Course Title  Discrete Mathematics for Engineers Formal Language and Automata	Hou	Т	Р	С	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI Course Title  Database Management Systems Compiler Design	Hou L	0 urs/V T 0	Veek P 2 2 2	0 26
Code 18MAB302T 18CSC301T 18CSC302J	Semester - V  Course Title  Discrete Mathematics for Engineers Formal Language and Automata Computer Networks	Hou L	T 1	P 0	C 4	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI Course Title  Database Management Systems Compiler Design Artificial Intelligence	Hou L 3	0 urs/ V T 0	Veek P 2 2 2	0
Code 18MAB302T 18CSC301T 18CSC302J	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	P 0 0	C 4 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI Course Title  Database Management Systems Compiler Design	Hou L 3 3	0 Uurs/V	Veek P 2 2 2	0 26 C 4 4 4 1
Code 18MAB302T 18CSC301T 18CSC302J	Semester - V  Course Title  Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1	Hou L 3 3 3 0 0 3	T 1 0 0 0	P 0 0 2 2 2 0	C 4 3 4 1 1 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI Course Title  Database Management Systems Compiler Design Artificial Intelligence	Hou L 3 3 3 0 0 0	0 urs/V T 0 0 0 0 1 0	0 Veek P 2 2 2 0 2	CC 44 44 11 11
Code 18MAB302T 18CSC301T 18CSC302J	Semester - V  Course Title  Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills-II Professional Elective – 1 Professional Elective – 2	Hou L 3 3 3 3 0 0 3 3 3 3	T 1 0 0 0 0	P 0 0 2 2 0 0	C 4 3 4 1 3 3 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T	Business Basics for Entrepreneurs 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 3 0 0	0 urs/V T 0 0 0 0 1 1 0 0 0	0 Week P 2 2 2 0 2	C 44 44 44 11 11 33
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 3 0 0 3	T 1 0 0 0 0	P 0 0 2 2 2 0	C 4 3 4 1 1 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T	Business Basics for Entrepreneurs 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	0 urs/ V T 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0	CC 44 44 11 11 33 33
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 0 0	C 4 3 4 1 3 3 3 3 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L	Business Basics for Entrepreneurs 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 3 0 0	0 urs/V T 0 0 0 0 1 1 0 0 0	Veek P 2 2 2 0 0 0 0	CC 44 44 41 11 11 33
Code 18MAB302T 18CSC301T 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	Hou L 3 3 3 3 0 0 3 3 3 3	T 1 0 0 0 0	P 0 0 2 2 2 0 0	C 4 3 4 1 3 3 3	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence 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	0 Urs/V T 0 0 0 0 0	0  Week P 2 2 2 0 0 0 0	CC 44 44 44 11 11 33 33 33
Code 18MAB302T 18CSC301T 18CSC306L 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	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC305T 18CSC307L	Business Basics for Entrepreneurs 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	0 urs/ V T 0 0 0 0 0 0 0 0 0	Veek P 2 2 2 0 0 0 0	CC 44 44 44 11 11 33 33
Code 18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP103L 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 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills	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 2 2 0 0 0	C 4 3 3 4 1 1 3 3 3 3 3 1	18PDM204L 18CYM101T Code 18CSC303J 18CSC305J 18CSC305J 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP105L	Business Basics for Entrepreneurs 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	0 urs/V T 0 0 0 0 0 0 0 0 0	0  Week P 2 2 0 0 0 2 2 0 0 2 2	CC 44 44 11 11 33 33 33 33
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 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 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management	Hotel L 3 3 3 3 0 0 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 2 0 0 0 0 2 2 2 2 2 2 2 2 2	C 4 3 4 1 1 3 3 3 3 1 1 0 0	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T 18CSC350T 18CSC9104L 18CSP105L 18CSP105L 18CSP106L 18CSP106L	Business Basics for Entrepreneurs 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	0 urs/V T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0  Week P 2 2 0 0 0 2 2 2 0 2 2 2 2 2 2 2 2 2 2	C 4 4 4 4 1 1 1 3 3 3 3 3 1 1 1 1 1 1 1 1
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 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 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Traditional Knowledge	Hot L 3 3 3 3 3 0 0 3 3 3 3 3 3 0 0 0 0 1 1	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 3 3 4 1 1 3 3 3 3 1 1 0 0 0 0	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T 18CSC350T 18CSC9104L 18CSP105L 18CSP105L 18CSP106L 18CSP106L	Business Basics for Entrepreneurs 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 urs/V T 0 0 0 0 0 0 0 0 0	0  Week P 2 2 0 0 0 2 2 0 0 2 2	CC 44 44 11 11 11 11 11 11 11 11 11 11 11
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 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 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management	Hot L 3 3 3 3 3 0 0 3 3 3 3 3 3 0 0 0 0 1 1	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 2 0 0 0 0 2 2 2 2 2 2 2 2 2	C 4 3 4 1 1 3 3 3 3 1 1 0 0	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC350T 18CSC350T 18CSC9104L 18CSP105L 18CSP105L 18CSP106L 18CSP106L	Business Basics for Entrepreneurs 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	0 urs/V T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0  Week P 2 2 0 0 0 2 2 2 0 2 2 2 2 2 2 2 2 2 2	CC 44 44 11 11 33 33 33 11 11 CC
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Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18LEM109T	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 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C 4 3 4 4 1 1 3 3 3 3 3 1 1 0 0 22	18PDM204L 18CYM101T Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC307L 18CSP104L 18CSP105L 18CSP105L 18PDH201T 18LEM110L	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence 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 3 0 0 0 0 3 3 3 3 3 0 0 0 0 0 0	0 urs/V T 0 0 0 1 0 0 0 0 0 0 0 urs/V	0 Veek P 2 2 0 0 0 0 2 2 0 0 0 Veek	CC 24 4 4 4 1 1 1 3 3 3 3 3 3 3 1 1 1 CC 2 5
Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP103L 18CSP103L 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 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	Hotel L 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5	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 3 3 4 4 1 3 3 3 3 3 1 1 0 0 0 22	18PDM204L 18CYM101T  Code  18CSC303J  18CSC305J  18CSC305J  18CSC307L  18CSP106L  18CSP106L  18CSP105L  18CSP106L  18PDH201T  18LEM110L  Code	Business Basics for Entrepreneurs 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  Semester - VIII  Course Title	Hou L 3 3 3 3 0 0 0 0 3 3 3 3 3 0 0 0 0 0 0	0 Urs/V T T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0  Veek P 2 2 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CC 44 44 11 11 33 33 33 11 11 CC
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Code 18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18PDM301L 18LEM109T	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	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 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 C C 3 3 3 3	18PDM204L 18CYM101T  Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L  18CSP104L 18CSP106L 18PDH201T 18LEM110L  Code 18CSP109L	Business Basics for Entrepreneurs 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  Semester - VIII  Course Title	Hou L 3 3 3 3 0 0 0 0 3 3 3 3 3 0 0 0 0 0 0	0 urs/V 0 0 0 0 0 0 0 0 Trs/V T	0 Veek P 2 2 0 0 0 0 2 2 0 0 0 Veek	(C) 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Code 18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP103L 18PDM301L 18PDM301L 18LEM109T	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 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	Hotel 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	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 1 1 3 3 3 3 1 1 0 0 0 22 C C 3	18PDM204L 18CYM101T  Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L  18CSP104L 18CSP106L 18PDH201T 18LEM110L  Code 18CSP109L	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence 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 urs/V 0 0 0 0 0 0 0 0 Trs/V T	0  Veek P 2 2 0 0 0 0 2 2 2 0 0 P P P P P P P P	
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 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 3 4 1 1 3 3 3 3 1 1 0 0 0 22 C C 3 3 3 3 3 3	18PDM204L 18CYM101T  Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L  18CSP104L 18CSP106L 18PDH201T 18LEM110L  Code 18CSP109L	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence 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 urs/V 0 0 0 0 0 0 0 0 Trs/V T	0  Veek P 2 2 0 0 0 0 2 2 2 0 0 P P P P P P P P	
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 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	Hotel 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 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 C C 3 3 3 3	18PDM204L 18CYM101T  Code 18CSC303J 18CSC304J 18CSC305J 18CSC307L  18CSP104L 18CSP106L 18PDH201T 18LEM110L  Code 18CSP109L	Business Basics for Entrepreneurs Environmental Science Total Learning Credits  Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence 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 urs/V 0 0 0 0 0 0 0 0 Trs/V T	0  Veek P 2 2 0 0 0 0 2 2 2 0 0 P P P P P P P P	1 1 1 (C) 2