## **ACADEMIC CURRICULA**

### UNDERGRADUATE DEGREE PROGRAMMES

**Bachelor of Technology** 

(B.Tech. - Four Years)

(New Programmes)

Regulations 2018

**Volume - 4(10)** 

(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



## 3. B.Tech. in Computer Science and Engineering with Specialization in Blockchain Technology

#### 3. (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 Engineering and
IVIISSION SUNC- 2	its allied fields to serve the needs of society
Mission Ctmt 2	To demonstrate strong communication skills and possess the ability to design computing systems individually as well as part of a
Mission Stmt - 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 to
MISSION SUM - 5	lifelong learning

## 3. (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
1 20 1	industries and R&D sectors.
PEO - 2	Graduates will be able to successfully pursue higher education in reputed institutions.
DEO 3	Graduates will have the ability to adapt, contribute and innovate new technologies and systems in the key domains of Computer Science and
IPE() - 3	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.

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

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

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

					1	rograr	n Lear	ning Ou	tcome	s (PLO	)		$\overline{}$		
		2			Gra	aduate At	tributes (0	GA)				7		gram S <mark>pe</mark> come <mark>s (P</mark>	
	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	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	НС.	Н	H	H	H	L	L	L	L	L	Н	Н	L

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

PSO – Program Specific Outc	comes (PSO)
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PSO - 1	Ability to apply the techniques and tools of Block chain Technology
PSO - 2	Create new Algorithms and techniques with Block chain concepts
PSO - 3	Ability to Develop systems involving Block chain fundamentals

# 3. (e) Program Structure: B.Tech. in Computer Science and Engineering with Specialization in Blockchain Technology

H201T   Employability Skills & Practices   0   0   2   1	3 1 2 5 3 1 0 4 ex Analysis 3 1 0 4 e Problems 3 1 0 4 ry 3 1 0 4
Code	L T P   C   S   3 1 2 5 5
H101J   English	s 3 1 2 5 3 1 2 5 3 1 0 4 92 Analysis 3 1 0 4 94 Problems 3 1 0 4 97 3 1 0 4 98 eers 3 1 0 4 1 0 0 0 2
H102J   Chinese	3 1 2 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Total Learning Credits   French   18MAB101T   Calculus and Linear Algebra   18MAB102T   Advanced Calculus and Comple   18MAB201T   Transforms and Boundary Value   18MAB204T   Transforms and Boundary Value   18MAB204T   Probability and Queueing Theor   18MAB204T   Probability and Queueing Theor   18MAB204T   18MAB204T   Discrete Mathematics for Engine   18MAB204T   18MAB204T   Discrete Mathematics for Engine   18MAB204T	3   1   0   4
H104J   German	e Problems 3 1 0 4 e Problems 3 1 0 4 ry 3 1 0 4 eers 3 1 0 4 2 0 0 2
H105J Japanese H106J Korean H101T General Aptitude H102T Management Principles for Engineers H101T Employability Skills & Practices Total Learning Credits  18MAB201T Transforms and Boundary Value 18MAB204T Probability and Queueing Theory 18MAB302T Discrete Mathematics for Engine 18MAB302T Discrete Mathematics for Engine 18BTB101T Biology Total Learn 18MAB201T Transforms and Boundary Value 18MAB302T Discrete Mathematics for Engine 18BTB101T Biology Total Learn 18MAB201T Transforms and Boundary Value 18MAB302T Discrete Mathematics for Engine 18MAB302T Discrete Mathematics for Engine 18MAB201T Transforms and Boundary Value 18MAB202T Discrete Mathematics for Engine 18MAB302T Discrete Mathematics for Engine 18MAB201T Transforms and Boundary Value 18MAB201T Tran	e Problems 3 1 0 4 ry 3 1 0 4 eers 3 1 0 4 2 0 0 2
Hard	y 3 1 0 4 3 1 0 4 2 0 0 2
	eers 3 1 0 4 2 0 0 2
DH102T   Management Principles for Engineers   2   0   0   2	2 0 0 2
DH103T   Social Engineering   2 0 0 2   Total Learn	
0 0 2 1 Total Learning Credits  Total Services 10 0 0 2 1 Total Learning Credits  Total Services 12  Course Course	ning Creaits 3
Total Learning Credits 12 4. Professional Core Course	
Course	es (C)
Course	
3. Engineering Science Courses (5)	Hours/ Week
Code Title	L T P C
urse Course Hours/ Week 18CSC201J Data Structures and Algorithms	3 0 2 4
ode Title L T P C <u>18CSC202J Object Oriented Design and Progra</u>	
ES101L Engineering Graphics and Design 1 0 4 3 18CSC203J Computer Organization and Archite	
S101J Basic Electrical and Electronics Engineering   3   1   2   5   18CSC204J Design and Analysis of Algorithms	3 0 2 4
ES1031 Civil and Mechanical Engineering Workshop 1 0 4 3 18CSC205J Operating Systems	3 0 2 4
SS101J Programming for Problem Solving 3 0 4 5 18CSC206J Software Engineering and Project M	
SS201J Analog and Digital Electronics 3 0 2 4	3 0 2 4
SS202J Computer Communications 2 0 2 3 18CSC301T Formal Language and Automata	3 0 0 3
Total Learning Credits 23 18CSC302J Computer Networks	3 0 2 4
18CSC303J Database Management Systems	3 0 2 4
18CSC304J Compiler Design	3 0 2 4
5. Professional Elective Courses (E)  18CSC305J Artificial Intelligence	3 0 2 4
(Any 6 Elective Courses) 18CSC350T Comprehension	0 1 0 1
urse Course Hours/ 18CSC208L Competitive Professional Skills - I	0 0 2 1
Week 18CSC306L Competitive Professional Skills – II	0 0 2 1
ode Title L T P C 18CSC307L Competitive Professional Skills - III	
E332T Distributed Systems and Applications 3 0 0 3 Total Learn	ning Credits 5
333J Big Data Tools and Techniques for Blockchain 2 0 2 3	
5334T Blockchain using Cryptography 3 0 0 3 6. Open Elective Courses	
E335T Principles of Cryptography 3 0 0 3 (Any 3 Open Elective Co	
431J Distributed Ledger Technology 2 0 2 3 Course Course	Hours/ Week
E432T Smart Contracts and Application Development 3 0 0 0 3 Code Title	L T P C
433T Trust based computing 3 0 0 3 18CSO101T IT Infrastructure Management	3 0 0 3
434J Web3 Development 2 0 2 3 18CSO102T Mobile Application Development	3 0 0 3
435J Advanced Cryptography 2 0 2 3 18CSO103T System Modeling and Simulation	3 0 0 3
Total Learning Credits 18 18 18CSO104T Free and Open Source Softwares	3 0 0 3
8. Mandatory Courses (M)  18CSO105T Android Development	3 0 0 3
de Course Title L T P C 18CSO106T Data Analysis using Open Source T	Tool 3 0 0 3
1101L Professional Skills and Practices 0 0 2 0 18CSO107T IOS Development	3 0 0 3
1991 Competencies in Social Skills	
1201L Competencies in Social Skills 0 0 2 0 Total Learn 1203L Entrepreneurial Skill Development	ning Credits 0
1991 Critical and Creative Thinking Chills	rnship In
1202L   Critical and Creative Thinking Skills   0   0   2   0   Industry/ Higher Technical Institu	
1991 Applytical and Logical Thinking Chille	Hours/ Week
1301L   Analytical and Logical Trilinking Skills   0   0   2   0   Code   Title	LTP
101T Constitution of India 1 0 0 0 18CSP101L Massive Open Online Course - I	
1102J Value Education 1 0 1 0 18CSP102L Industrial Training-I	0 0 2 1
TOTAL PHYSICAL AND WIETRAL DEALUT USING TOGAL TO TOTAL TRUE TO THE TRUE TRUE TO THE TRUE TRUE TRUE TRUE TO THE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRU	
	0 0 2 1
18CSP104L Massive Open Online Course - II	0   0   2   1
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II	0 0 2
18CSP104L Massive Open Online Course - II	
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II 18CSP107L Minor Project	0 0 6 3
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II	0 0 6 3
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks)	
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks) 18CSP109L Project 18CSP109L Semester Internship	0 0 6 3
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP105L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks) 18CSP109L Project 18CSP110L Semester Internship Total Learn	0 0 6 3 0 0 20 1 ning Credits 1
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks) 18CSP109L Project 18CSP110L Semester Internship Total Learn  8. Mandatory Course	0 0 6 3 0 0 20 1 ning Credits 1
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP107L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks) 18CSP109L Project 18CSP110L Semester Internship Total Learn  8. Mandatory Course Course Course	0 0 6 3 0 0 20 1 ning Credits 1 ss (M)
18CSP104L Massive Open Online Course - II 18CSP105L Industrial Training-II 18CSP106L Seminar - II 18CSP107L Minor Project 18CSP108L Internship (4-6 weeks) 18CSP109L Project 18CSP110L Semester Internship  Total Learn  8. Mandatory Course Course Code Title	0 0 6 3 0 0 20 1 ning Credits 1
18CSP104L   Massive Open Online Course - II   18CSP105L   Industrial Training-II   18CSP106L   Seminar - II   18CSP107L   Minor Project   18CSP107L   Internship (4-6 weeks)   18CSP107L   Project   18CSP107L   Project   18CSP107L   Semester Internship   Total Learr	0 0 6 3 0 0 20 1 ning Credits 1 ss (M) Hours/ Week L T P C
18CSP104L   Massive Open Online Course - II	0 0 6 3 0 0 20 1 ning Credits 1 ss (M)
18CSP104L   Massive Open Online Course - II	0 0 6 3 0 0 20 1 ning Credits 1 s (M) Hours/Week L T P C 0 0 2 (
18CSP104L   Massive Open Online Course - II	0 0 6 3 0 0 20 1 ning Credits 1 ss (M) Hours/ Week L T P C

18CYM101T

Environmental Science

1 0 0 0

### 3. (f) Program Articulation:B.Tech. in Computer Science and Engineering with Specialization in Blockchain Technology

				F	rog	jram	Le	arni	ng (	Outo	om	es (	PLC	))		
						Grad	uate	Attrib	utes						PS0	
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	L	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
18CSC204J	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
18CSC206J	Software Engineering and Project Management	Н	Н	Н	H	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	M	М	L	Н	Н	Н	Н
	Artificial Intelligence	Н	Н	H	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
	Distributed Systems and Applications	Н	Н	Н	М	Н	M	L	M	Н	M	L	Н	L	Н	Н
	Big Data Tools and Techniques for Blockchain Blockchain using Cryptography	H	H	H	H	H	M	L	M	H	M	L M	H	L	H	H
	Principles of Cryptography	Н	Н	Н	М	Н	M	L	M	Н	M	M	Н	L	Н	Н
	Distributed Ledger Technology	Н	Н	Н	Н	Н	Н	L	M	Н	M	M	Н	M	Н	Н
	Smart Contracts and Application Development	Н	Н	Н	Н	М	М	L	M	Н	M	L	Н	M	Н	Н
	Trust based computing	Н			Н	Н				Н						
	Web3 Development	Н	H	H	Н	Н	M	M L	H M	Н	M	M	H	M	H	H
	Advanced Cryptography					Н					М					Н
		Н	Н	Н	Н		М	L	М	Н	1000	М	Н	М	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	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	М	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
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	H	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
	<b>Project</b>	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

# 3. (g) Implementation Plan: B.Tech. in Computer Science and Engineering with Specialization in Blockchain Technology

Code	• • •					i e	A ( II				
Codo	Semester - I	1					Semester - II	1			
	Course Title	L	Τ	Veek P	С	Code	Course Title	L	ırs/ V	Veek P	С
18LEH101J	English	2	0	2	3	18LEH10XJ	Chinese / French / German / Japanese/	2	0	2	3
18MAB101T	Calculus and Linear Algebra	3	1	0	4		Korean				
18PYB103J	Physics: Semiconductor Physics	3	1	2	5		Advanced Calculus and Complex Analysis	3	1	0	4
18MES101L	Engineering Graphics and Design	1	0	4	3	18CYB101J		3	1	2	5
18EES101J	Basic Electrical and Electronics Engineering	3	1	2	5	18CSS101J	Programming for Problem Solving	3	0	4	5
18PDM101L	Professional Skills and Practices	0	0	2	0	18MES103L	Civil and Mechanical Engineering Workshop	1	0	4	3
	Constitution of India	1	0	0	0		General Aptitude	0	0	2	1
	Physical and Mental Health using Yoga	0	0	2	0		Value Education	1	0	1	0
	Total Learning Credit			_	20		NCC / NSS / NSO	0	0	2	0
	Total Zouthing Ground						Total Learning Credits	3			21
	Semester - III	Hoi	ire/V	Veek			Semester - IV	Hou	ire/V	Veek	
Code	Course Title	L	Т	Р	С	Code	Course Title	L	Т	Р	C
18MAB201T	Transforms and Boundary Value Problems	3	1	0	4		Probability and Queueing Theory	3	1	0	4
18BTB101T		2	0	0	2		Computer Communications	2	0	2	3
	Analog and Digital Electronics	3	0	2	4		Design and Analysis of Algorithms	3	0	2	4
18CSC201J	Data Structures and Algorithms	3	0	2	4	18CSC205J	Operating Systems	3	0	2	4
	Object Oriented Design and Programming	3	0	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
18PDM2011	Competencies in Social Skills					18CSC208L	Competitive Professional Skills - I	0	0	2	1
	Entrepreneurial Skill Development	- 0	0	2	0		Social Engineering	2	0	0	2
TOI DIVIZOOL	Total Learning Credit				24		Critical and Creative Thinking Skills				
	Total Learning Credit	0			24		Business Basics for Entrepreneurs	0	0	2	0
							Environmental Science	1	0	0	0
	The second secon					TOCTIVITOTT			U	U	26
							Total Learning Credits	5			20
	Semester - V					1.54	Semester - VI	5			20
Code	Semester - V Course Title	Hou	urs/ V	Veek	С	Code			ırs/ V	Veek	
	Course Title	L	T	Р			Semester - VI Course Title	Hou	Т	Р	С
18MAB302T	Course Title  Discrete Mathematics for Engineers	L 3	T	P 0	4	18CSC303J	Semester - VI  Course Title  Database Management Systems	Hou L	T 0	P 2	C 4
18MAB302T 18CSC301T	Course Title  Discrete Mathematics for Engineers  Formal Language and Automata	3 3	T 1 0	P 0 0	4	18CSC303J 18CSC304J	Semester - VI  Course Title  Database Management Systems  Compiler Design	Hou L 3	T 0 0	P 2 2	C 4
18MAB302T 18CSC301T 18CSC302J	Course Title  Discrete Mathematics for Engineers  Formal Language and Automata  Computer Networks	3 3 3	T 1 0	P 0 0 2	4 3 4	18CSC303J 18CSC304J 18CSC305J	Semester - VI  Course Title  Database Management Systems  Compiler Design  Artificial Intelligence	Hou L 3 3	T 0 0	P 2 2 2	- C
18MAB302T 18CSC301T 18CSC302J	Course Title  Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills - II	3 3 3 0	T 1 0 0	P 0 0 2 2	4 3 4 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L	Semester - VI  Course Title  Database Management Systems  Compiler Design  Artificial Intelligence  Competitive Professional Skills - III	Hou L 3 3 3	T 0 0 0 0 0	P 2 2 2 2 2	- C
18MAB302T 18CSC301T 18CSC302J	Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills - II Professional Elective – 1	3 3 3 0 3	T 1 0 0 0 0 0	P 0 0 2 2 0	4 3 4 1 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L	Semester - VI  Course Title  Database Management Systems  Compiler Design  Artificial Intelligence  Competitive Professional Skills - III  Comprehension	Hou L 3 3 3 0 0	T 0 0 0 0	P 2 2 2 2 0	- C 4 4 4 4 1 1 1
18MAB302T 18CSC301T 18CSC302J	Course Title Discrete Mathematics for Engineers Formal Language and Automata Computer Networks Competitive Professional Skills - II Professional Elective – 1 Professional Elective – 2	3 3 3 0 3 3	T 1 0 0 0 0	P 0 0 2 2 2 0	4 3 4 1 3 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective – 3	Hou L 3 3 0 0	T 0 0 0 0 0 1 1 0	P 2 2 2 2 0 0	4 4 4 1 1 3
18MAB302T 18CSC301T 18CSC302J 18CSC306L	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	3 3 3 0 3	T 1 0 0 0 0 0	P 0 0 2 2 0	4 3 4 1 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L	Semester - VI  Course Title  Database Management Systems  Compiler Design  Artificial Intelligence  Competitive Professional Skills - III  Comprehension  Professional Elective – 3  Professional Elective – 4	Hou L 3 3 3 0 0 0 3 3	T 0 0 0 0 0 1 0 0 0 0	P 2 2 2 2 0 0 0 0	- C 4 4 4 1 1 1 3 3 3 3
18MAB302T 18CSC301T 18CSC302J 18CSC306L	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	3 3 3 0 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0	4 3 4 1 3 3 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T	Semester - VI  Course Title  Database Management Systems  Compiler Design  Artificial Intelligence  Competitive Professional Skills - III  Comprehension  Professional Elective – 3  Professional Elective – 4  Open Elective – 2	Hou L 3 3 0 0	T 0 0 0 0 0 1 1 0	P 2 2 2 2 0 0	- C 4 4 4 1 1 1 3 3 3 3
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP101L	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	3 3 3 0 3 3	T 1 0 0 0 0	P 0 0 2 2 2 0	4 3 4 1 3 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II	Hou L 3 3 3 0 0 0 3 3	T 0 0 0 0 0 1 0 0 0 0	P 2 2 2 2 0 0 0 0	- C 4 4 4 4 1 1 1 3 3 3 3
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP101L	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	3 3 3 0 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0	4 3 4 1 3 3 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II	Hou L 3 3 3 0 0 0 3 3	T 0 0 0 0 0 1 0 0 0 0	P 2 2 2 2 0 0 0 0	- C
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L	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	3 3 0 3 3 3 3 0	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0 0	4 3 4 1 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II Industrial Training-II	Hot L 3 3 3 0 0 0 3 3 3 3	T 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 0 0 0 0 0 0	- C
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L	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	3 3 3 0 3 3 3	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0	4 3 4 1 3 3 3	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC9104L 18CSP105L 18CSP106L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective – 3 Professional Elective – 4 Open Elective – 2 Massive Open Online Course - II Industrial Training-II Seminar - II	Hot L 3 3 3 3 0 0 0 3 3 3 3 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 2 2 2 2 0 0 0 0 0 2 2	4 4 4 4 1 1 3 3 3
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L	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	3 3 3 0 3 3 3 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 2 0 0 0 0 2 2 2 2 2 2 2 2 2 2	4 3 4 1 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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 3 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 2 2 2 2 0 0 0 0 0 2 2 2	C 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM302L	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	L 3 3 3 3 3 3 3 0 0 0 0 0 0 0 0 0 1 1 1 1	T 1 0 0 0 0 0	P 0 0 2 2 2 0 0 0	4 3 4 1 3 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 0 0 0 0 0 2 2	44 44 41 11 11 11 11 11
18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM302L	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	L 3 3 3 3 3 3 3 0 0 0 0 0 0 0 0 0 1 1 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 2 0 0 0 0 2 2 2 2 2 2 2 2 2 2	4 3 4 1 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 0 0 0 0 0 2 2 2	- CC 44 44 44 11 11 33 33 33 11 11 00
18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM302L	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	L 3 3 3 3 3 3 3 0 0 0 0 0 0 0 0 0 1 1 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 2 0 0 0 0 2 2 2 2 2 2 2 2 2 2	4 3 4 1 3 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 2 0 0 0 0 0 2 2 2	
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18LEM109T	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	L 3 3 3 3 3 3 3 3 3 3 3 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 0 2 2 0 0 0 0 0 0 0	4 3 4 1 3 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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 0 0 0 0 0 0 0 Hou below to the control of the co	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 2 2 2 2 2	- C 4 4 4 1 1 1 3 3 3 3 1 1 1 0 255
18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM302L	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	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 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	4 3 4 1 1 3 3 3 3 1	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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 Credite  Semester - VIII Course Title	Hou L 3 3 3 3 0 0 0 3 3 3 3 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 0 2 2 2 2 2 P Veek P	- C 44 44 11 11 33 33 3 11 11 00 25
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18LEM109T	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	L 3 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	P 0 0 0 2 2 0 0 0 0 2 2 0 0 0 0 0 0 0 0	4 3 4 1 1 3 3 3 3 1 0 0 22	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Seminar - II Employability Skills and Practices Indian Art Form  Total Leaming Credits  Semester - VIII  Course Title	Hou L 3 3 3 0 0 0 0 0 0 0 0 0 0 Hou below to the control of the co	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 2 2 2 2 2	- C 44 44 11 11 33 33 3 11 11 00 25
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18LEM109T	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	L 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5 5	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	4 3 4 1 3 3 3 3 3 1 0 0 0 22	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension 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 Credite  Semester - VIII Course Title	Hou L 3 3 3 3 0 0 0 3 3 3 3 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 0 2 2 2 2 2 P Veek P	- C 44 44 11 11 33 33 3 11 11 00 25
18MAB302T 18CSC301T 18CSC306L 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18PDM301L 18PDM301L 18PDM302L 18LEM109T	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	L 3 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	P 0 0 0 2 2 0 0 0 0 2 2 0 0 0 0 0 0 0 0	4 3 4 1 1 3 3 3 3 1 0 0 22	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Seminar - II Employability Skills and Practices Indian Art Form  Total Leaming Credits  Semester - VIII  Course Title	Hou L 3 3 3 3 0 0 0 3 3 3 3 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 0 2 2 2 2 2 P Veek P	- CC 44 44 44 11 11 33 33 33 33 11 11 11 00 25
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CP10301L 18PDM301L 18PDM302L 18LEM109T	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	L 3 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	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 3 4 1 3 3 3 3 3 1 0 0 22 C	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Seminar - II Employability Skills and Practices Indian Art Form  Total Leaming Credits  Semester - VIII  Course Title	Hou L 3 3 3 3 0 0 0 3 3 3 3 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 0 2 2 2 2 2 P Veek P	- CC 44 44 44 11 11 33 33 33 33 11 11 11 00 25
18MAB302T 18CSC301T 18CSC302J 18CSC306L 18CSP101L 18CSP102L 18CSP103L 18CP1031L 18PDM301L 18PDM301L 18LEM109T	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	L 3 3 3 3 3 0 0 1 1 1 S S	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	4 3 4 1 3 3 3 3 3 1 0 0 0 22	18CSC303J 18CSC304J 18CSC305J 18CSC307L 18CSC350T 18CSC350T 18CSP104L 18CSP105L 18CSP106L 18PDH201T 18LEM110L	Semester - VI  Course Title  Database Management Systems Compiler Design Artificial Intelligence Competitive Professional Skills - III Comprehension Professional Elective - 3 Professional Elective - 4 Open Elective - 2 Massive Open Online Course - II Industrial Training-II Seminar - II Seminar - II Employability Skills and Practices Indian Art Form  Total Leaming Credits  Semester - VIII  Course Title	Hou L 3 3 3 3 0 0 0 3 3 3 3 3 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	P 2 2 2 0 0 0 0 0 2 2 2 2 2 P Veek P	- CC 44 44 44 11 11 33 33 33 33 11 11 11 00 25