




Semester: III

Sl.No	Code	Course	Category	L-T-P	Credits	Contact Hours	CIE	SEE	Total	Exam Duration
1	15EMAB204	Graph Theory and Linear Algebra	BS	4-0-0	4	4	50	50	100	3 hours
2	15ECSC201	Discrete Mathematical Structures	PSC	3-0-0	3	3	50	50	100	3 hours
3	15ECSC202	Digital System Design	PSC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC203	Data Structures with C	PSC	4-0-0	4	4	50	50	100	3 hours
5	15ECSC204	Object Oriented Programming	PSC	3-0-0	3	3	50	50	100	3 hours
6	15ECSP201	Data Structures with C Lab	PSC	0-0-1.5	1.5	3	80	20	100	3 hours
7	15ECSP202	Digital System Design Lab	PSC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSP203	Object Oriented Programming Lab	PSC	0-0-1.5	1.5	3	80	20	100	3 hours
TOTAL				17-0-4.5	21.5	26	490	310	800	

CIE: Continuous Internal Evaluation **SEE:** Semester End Examination **L:** Lecture **T:** Tutorials **P:** Practical

Date:

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Semester: IV

No	Code	Course	Category	L-T-P	Credits	Contact Hours	CIE	SEE	Total	Exam Duration
1	15EMAB209	Applied Statistics	BS	3-1-0	4	4	50	50	100	3 hours
2	15ECSC205	Principles of Compiler Design	PSC	3-0-0	3	3	50	50	100	3 hours
3	15ECSC206	Computer Organization and Architecture	PSC	3-1-0	4	4	50	50	100	3 hours
4	15ECSC207	Design and Analysis of Algorithms	PSC	3-1-0	4	4	50	50	100	3 hours
5	15ECSC208	Database Management System	PSC	4-0-0	4	4	50	50	100	3 hours
6	15ECSC209	UNIX System Programming	PSC	3-0-0	3	3	50	50	100	3 hours
7	15ECSP204	Database Applications Lab	PSC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSP205	Scripting Languages Lab	PSC	0-0-1.5	1.5	3	80	20	100	3 hours
				19-3-3	25	27	460	340	800	

CIE: Continuous Internal Evaluation **SEE:** Semester End Examination **L:** Lecture **T:** Tutorials **P:** Practical

Date:

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Semester: V

No	Code	Course	Category	L-T-P	Credits	Contact Hours	CIE	SEE	Total	Exam Duration
1	15ECSC301	Software Engineering	PC	3-0-0	3	3	50	50	100	3 hours
2	17ECSC301	Computer Networks-1	PC	3-0-0	3	3	50	50	100	3 hours
3	17ECSC302	System Software	PC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC304	Operating System	PC	3-0-0	3	3	50	50	100	3 hours
5	17ECSC303	Data Mining & Analysis	PC	3-0-1	4	5	50	50	100	3 hours
6	17ECSC306	Machine Learning	PC	2-0-1	3	4	50	50	100	3 hours
7	15ECSP301	System Software Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSW301	Mini Project	PW	0-0-3	3	3	50	50	100	3 hours
TOTAL				17-0-6.5	23.5	27	430	370	800	

ISA: Internal Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Date:

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Semester: VI

No	Code	Course	Category	L-T-P	Credits	Contact Hours	CIE	SEE	Total	Exam Duration
1	17ECSC304	Computer Networks-2	PC	3-0-0	3	3	50	50	100	3 hours
2	17ECSC305	Distributed & Cloud Computing	PC	2-0-1	3	4	50	50	100	3 hours
3	15EHSC301	Professional Aptitude & Logical Reasoning	HS	3-0-0	3	3	50	50	100	3 hours
4	17ECSE3XX	Professional Elective-1	EC	3-0-0	3	3	50	50	100	3 hours
5	17ECSE3XX	Professional Elective-2	EC	3-0-0	3	3	50	50	100	3 hours
6	15ECSP302	Computer Networks Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
7	15ECSP303	Web Technologies Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSW302	Minor Project	PW	0-0-6	6	3	50	50	100	3 hours
				14-0-10	24	25	460	360	800	

ISA: Internal Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Professional Elective – 1 & 2

Data Engineering	Networking	Systems Engineering
Computer Vision (17ECSE308) Algorithmic Problem Solving (17ECSE309)	Internet of Things (17ECSE303) Active Directory Domain Services (17ECSE304)	Parallel Computing (17ECSE307) Quantum Computing (17ECSE306)

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Semester: VII

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	17ECSC401	Big Data & Analytics	PC	2-0-1	3	4	50	50	100	3 hours
2	15ECSC402	Information Security	PC	2-0-1	3	4	50	50	100	3 hours
3	18ECSE4XX	Professional Elective-3	EC	3-0-0	3	3	50	50	100	3 hours
4	18ECSE4XX	Professional Elective-4	EC	3-0-0	3	3	50	50	100	3 hours
5	18ECSE4XX	Professional Elective-5	EC	3-0-0	3	3	50	50	100	3 hours
6	15ECSO4XX	Open Elective-1	OE	3-0-0	3	3	50	50	100	3 hours
7	15EHSA401	CIPE(Audit)	HS	0-0-0	0	2	50	50	100	3 hours
TOTAL				16-0-2	18	22	300	300	600	

ISA: In Semester Assessment ESA: End Semester Assessment: Lecture T: Tutorials P: Practical

Professional Elective – 3, 4 & 5			
Data Engineering	Networking	Systems Engineering	Open Elective-1
Cyber Security (18ECSE401) Social Network Analysis (18ECSE402)	Unix Network Programming (18ECSE404) Software Defined Networks (18ECSE405)	Software Testing (18ECSE407) C# Programming & .Net (18ECSE409)	Distributed and Cloud Computing (15ECSO401) Database Management System (15ECSO402) High Performance Computing for Engineering Applications (15ECSO404) Essential of IT (0-0-3) (15ECSO405)

Date:

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Semester: VIII



Sl.No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	18ECSE4XX	Professional Elective-6	EC	3-0-0	3	3	50	50	100	3 hours
2	15/18ECSOXXX	Open Elective-2	OE	3-0-0	3	3	50	50	100	3 hours
3*	18ECSE493	Industry Training	PW	0-0-6	6	6	50	50	100	3hours
4	18ECSE494	Industry Project	PW	0-0-14	14	28	50	50	100	3 hours
	18ECSE401	Capstone Project								
TOTAL				6-0-14	20	34	150	150	300	

ISA: In Semester Assessment **ESA:** End Semester Assessment **L:** Lecture **T:** Tutorials **P:** Practical

*Note that students can either choose 1, 2 & 4 or 3 & 4.

Professional Elective – 6			Open Elective-2
Data Engineering	Networking	Systems Engineering	Software Engineering (15ECSE403) Big Data Analytics (18ECSE401)
Natural Language Processing (18ECSE403)	Wireless Adhoc & Sensor Networks (18ECSE406)	Advanced Parallel Computing (18ECSE408) Software Architecture & Design Thinking (18ECSE410) Model Thinking(18ECSE411)	

Date:



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Semester: III

Sl. No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB204	Graph Theory and Linear Algebra	BS	4-0-0	4	4	50	50	100	3 hours
2	17ECSC201	Discrete Mathematical Structures	PC	3-0-0	3	3	50	50	100	3 hours
3	15ECSC202	Digital System Design	PC	3-0-0	3	3	50	50	100	3 hours
4	17ECSC204	Data Structures and Algorithms	PC	4-1-0	5	6	50	50	100	3 hours
5	17ECSP202	Engineering Design	PC	0-0-3	3	6	80	20	100	3 hours
6	17ECSP201	Data Structures and Algorithms Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	15ECSP202	Digital System Design Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
TOTAL				14-1-6.5	21.5	29	440	260	700	

ISA: Internal Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

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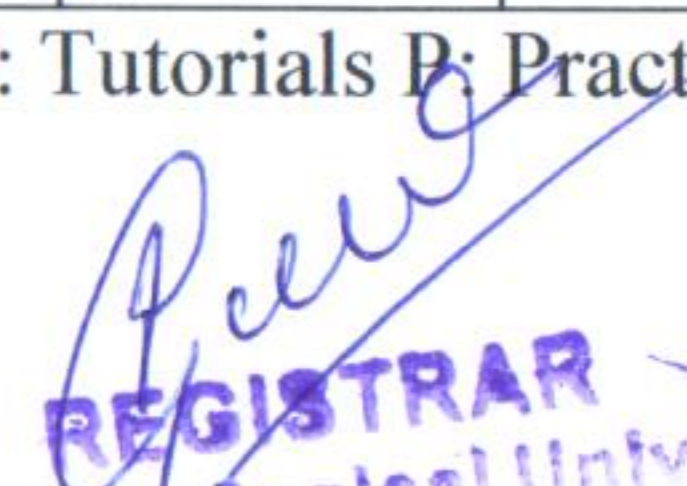
Semester: IV

Sl.No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB209	Applied Statistics	BS	3-1-0	4	5	50	50	100	3 hours
2	17ECSC202	Principles of Compiler Design	PC	3-0-0	3	3	50	50	100	3 hours
3	17ECSC205	Computer Organization and Architecture	PC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC204	Object Oriented Programming	PC	3-0-0	3	3	50	50	100	3 hours
5	15ECSC208	Database Management System	PC	4-0-0	4	4	50	50	100	3 hours
6	17ECSC203	Operating System	PC	3-0-0	3	3	50	50	100	3 hours
7	15ECSP204	Database Applications Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSP203	Object Oriented Programming Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
9	17ECSP203	Product Realization	PC	0-0-2	2	3	80	20	100	3 hours
				19-1-5	25	30	540	360	900	

ISA: Internal Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Date:

Program Head


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Semester: V

Sl.No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15ECSC301	Software Engineering	PC	3-0-0	3	3	50	50	100	3 hours
2	17ECSC301	Computer Networks-1	PC	3-0-0	3	3	50	50	100	3 hours
3	17ECSC302	System Software	PC	3-0-0	3	3	50	50	100	3 hours
4	17ECSC307	UNIX System Programming	PC	3-0-0	3	3	50	50	100	3 hours
5	18ECSC301	Data Mining & Analysis	PC	3-0-1	4	5	80	20	100	3 hours
6	17ECSC306	Machine Learning	PC	2-0-1	3	4	50	50	100	3 hours
7	18ECSP303	System Software Lab	PC	0-0-1	1	3	80	20	100	3 hours
8	18ECSP301	Scripting Languages Lab	PC	0-0-2	2	4	80	20	100	3 hours
9	15ECSW301	Mini Project	PW	0-0-3	3	3	50	50	100	3 hours
TOTAL				17-0-8	25	31	540	360	900	

ISA: In Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Date:


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Semester: VI

Sl. No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	17ECSC304	Computer Networks-2	PC	3-0-0	3	3	50	50	100	3 hours
2	17ECSC305	Distributed & Cloud Computing	PC	2-0-1	3	4	50	50	100	3 hours
3	15EHSC301	Professional Aptitude & Logical Reasoning	HS	3-0-0	3	3	50	50	100	3 hours
4	17/18ECSE3 XX	Professional Elective-1	PC	3-0-0	3	3	50	50	100	3 hours
5	17/18ECSE3 XX	Professional Elective-2	PC	3-0-0	3	3	50	50	100	3 hours
6	15ECSP302	Computer Networks Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
7	18ECSP304	Web Technologies Lab	PC	0-0-2	2	4	80	20	100	3 hours
8	15ECSW302	Minor Project	PW	0-0-6	6	3	50	50	100	3 hours
				14-0-10.5	24.5	26	460	340	800	

ISA: In Semester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Professional Elective – 1& 2

Data Engineering

Computer Vision (2-0-1) (18ECSE301)
Algorithmic Problem Solving (0-0-6)
(17ECSE309)

Networking

Internet of Things (2-0-1) (17ECSE303)
Active Directory Domain Services (2-0-1)
(17ECSE304)

Systems Engineering

Parallel Computing (17ECSE307)
Quantum Computing (17ECSE306)
Embedded Intelligent Systems (0-0-3) (18ECSE302)

Date:

Program Head



Semester VII

Sl. No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	17ECSC401	Big Data & Analytics	PC	2-0-1	3	4	50	50	100	3 hours
2	15ECSC402	Information Security	PC	2-0-1	3	4	50	50	100	3 hours
3	XXECSE4XX	Professional Elective-3	EC	3-0-0	3	3	50	50	100	3 hours
4	XXECSE4XX	Professional Elective-4	EC	3-0-0	3	3	50	50	100	3 hours
5	XXECSE4XX	Professional Elective-5	EC	3-0-0	3	3	50	50	100	3 hours
6	XXECSE4XX	Open Elective-1	OE	3-0-0	3	3	50	50	100	3 hours
7	15EHSA401	CIPE(Audit)	HS	0-0-0	0	2	50	50	100	3 hours
TOTAL				16-0-2	18	22	350	350	700	

Professional Elective – 3, 4, 5 and 6

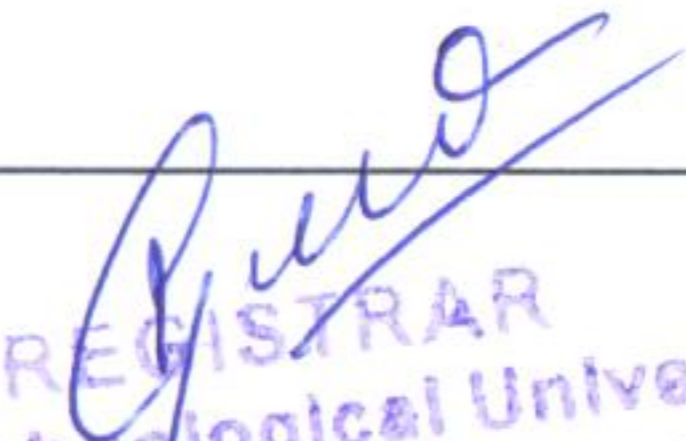
Data Engineering	Networking	Systems Engineering
18ECSE402 - Social Network Analysis (3-0-0) 18ECSE403 - Natural Language Processing (3-0-0) 19ECSE402 - Fuzzy Set Theory (3-0-0)	18ECSE404 - Unix Network Programming (3-0-0) 18ECSE405 - Software Defined Networks (3-0-0) 18ECSE406 - Wireless Adhoc& Sensor Networks (3-0-0) 19ECSE401 - Cyber Security (2-0-1)	18ECSE407 - Software Testing (3-0-0) 18ECSE409 - C# Programming & .Net (3-0-0) 18ECSE408 - Advanced Parallel Computing (3-0-0) 18ECSE410 - Software Architecture and Design Thinking (3-0-0) 18ECSE411 - Model Thinking (3-0-0)

Open Elective-1

15ECSE401 - Distributed and Cloud Computing (2-0-1)
15ECSE402 - Database Management System (3-0-0)
15ECSE404 - High Performance Computing for Engineering Applications (3-0-0)
15ECSE405 - Essential of IT (3-0-0)

Open Elective-2

15ECSE403- Software Engineering (3-0-0)
18ECSE401 - Big Data Analytics (3-0-0)


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Semester: VIII

Sl.No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	XXECSE4XX	Professional Elective-6	EC	3-0-0	3	3	50	50	100	3 hours
		Open Elective-2								
2	18ECSE401	Big Data Analytics	OE	3-0-0	3	3	50	50	100	3 hours
	15ECSE403	Software Engineering								
3*	18ECSE493	Industry Training	PW	0-0-6	6	6	80	20	100	3hours
4	18ECSE494	Industry Project	PW	0-0-14	14	28	50	50	100	3 hours
	18ECSE401	Capstone Project								
	TOTAL			6-0-14	20	34	150	150	300	

Professional Elective – 3, 4, 5 and 6		
Data Engineering	Networking	Systems Engineering
18ECSE402 - Social Network Analysis (3-0-0) 18ECSE403 - Natural Language Processing (3-0-0) 19ECSE402 - Fuzzy Set Theory (3-0-0)	18ECSE404 - Unix Network Programming (3-0-0) 18ECSE405 - Software Defined Networks (3-0-0) 18ECSE406 - Wireless Adhoc& Sensor Networks (3-0-0) 19ECSE401 - Cyber Security (2-0-1)	18ECSE407 - Software Testing (3-0-0) 18ECSE409 - C# Programming & .Net (3-0-0) 18ECSE408 - Advanced Parallel Computing (3-0-0) 18ECSE410 - Software Architecture and Design Thinking (3-0-0) 18ECSE411 - Model Thinking (3-0-0)

Open Elective-1	Open Elective-2
15ECSE401 - Distributed and Cloud Computing (2-0-1) 15ECSE402 - Database Management System (3-0-0) 15ECSE404 - High Performance Computing for Engineering Applications (3-0-0) 15ECSE405 - Essential of IT (3-0-0)	15ECSE403- Software Engineering (3-0-0) 18ECSE401 - Big Data Analytics (3-0-0)



Title: Curriculum structure semester wise

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Year: 2017-21

Semester: III

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration	
1	15EMAB204	Graph Theory and Linear Algebra	PC	4-0-0	4	4	50	50	100	3 hours	
2	18ECSC204	Discrete Mathematical Structures	PC	3-0-0	3	3	50	50	100	3 hours	
3	18ECSC201	Computer Organization and Architecture	PC	4-0-0	4	4	50	50	100	3 hours	
4	17ECSC204	Data Structures and Algorithms	PC	4-1-0	5	6	50	50	100	3 hours	
5	18ECSC205	Principles of Compiler Design	PC	3-0-0	3	6	50	50	100	3 hours	
6	17ECSP201	Data Structures and Algorithms Lab	PC	0-0-2	2	4	80	20	100	3 hours	
7	18ECSP202	Computer Organization and Architecture Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours	
8	18ECSP201	Scripting Languages Lab	PC	0-0-2	2	4	80	20	100	3 hours	
TOTAL					18-1-5.5	24.5	34	490	310	800	

ISA: In Semester Assessment **ESA: End Semester Assessment** **L: Lecture** **T: Tutorials** **P: Practical**

Date:


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Title: Curriculum structure semester wise

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Year: 2017-21

Semester: IV

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB209	Applied Statistics	BS	3-1-0	4	5	50	50	100	3 hours
2	18ECSC206	Microcontroller: Programming and Interfacing	PC	3-0-1	4	5	50	50	100	3 hours
3	18ECSC207	Object Oriented Programming with C++	PC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC208	Database Management System	PC	4-0-0	4	4	50	50	100	3 hours
5	18ECSC202	Operating System Principles and Programming	PC	4-0-1	5	6	50	50	100	3 hours
6	15ECSP204	Database Applications Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
7	18ECSP203	Object Oriented Programming with C++ Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
				17-1-5	23	29	410	290	700	

ISA: InSemester Assessment ESA: End Semester Assessment L: Lecture T: Tutorials P: Practical

Date:


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Program Head



Semester: V

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15ECSC301	Software Engineering	PC	3-0-0	3	3	50	50	100	3 hours
2	19ECSC302	Computer Networks-1	PC	3-1-0	4	5	50	50	100	3 hours
3	17ECSC302	System Software	PC	3-0-0	3	3	50	50	100	3 hours
4	19ECSP301	Java Programming	PC	1-0-1.5	2.5	4	80	20	100	3 hours
5	18ECSC301	Data Mining & Analysis	PC	3-0-1	4	5	80	20	100	3 hours
6	17ECSC306	Machine Learning	PC	2-0-1	3	4	50	50	100	3 hours
7	19ECSP302	System Software Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
8	15ECSW30 1	Mini Project	PW	0-0-3	3	3	50	50	100	3 hours
TOTAL				15-1-8	24	30	490	310	800	

ISA: In Semester Assessment

ESA: End Semester Assessment

L: Lecture

T: Tutorials

P: Practical

Date:

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 Program Head



Semester: VI

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	19ECSC303	Computer Networks-2	PC	2-0-1.5	3.5	5	50	50	100	3 hours
2	17ECSC305	Distributed & Cloud Computing	PC	2-0-1	3	4	50	50	100	3 hours
3	15EHSC301	Professional Aptitude & Logical Reasoning	HS	3-0-0	3	3	50	50	100	3 hours
4	1XECSE3X X	Professional Elective-1	PC	3-0-0	3	3	50	50	100	3 hours
5	1XECSE3X X	Professional Elective-2	PC	3-0-0	3	3	50	50	100	3 hours
6	18ECSP304	Web Technologies Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	15ECSW302	Minor Project	PW	0-0-6	6	3	50	50	100	3 hours
				13-0-10.5	23.5	25	380	320	700	

SA: In Semester Assessment

ESA: End Semester Assessment

L: Lecture


T: Tutorials

P: Practical

Date:


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	FORM ISO 9001: 2008 School of Computer Science and Engineering	Document #: FMCD2003	Rev: 1.0
	Title: Curriculum structure - semester wise		Page 3 of 3
			Year: 2017-21

Professional Elective – 1& 2		
Data Engineering	Networking	Systems Engineering
SE308 - Computer Vision (2-0-1) SE309- Algorithmic Problem Solving (0-0-6) SE303 - Semantic Web (3-0-0)	17ECSE303 - Internet of Things (2-0-1) 17ECSE304 - Active Directory Domain Services (2-0-1) 19ECSE301 - Blockchain Technology (2-0-1)	17ECSE307 - Parallel Computing (3-0-0) 17ECSE306 - Quantum Computing (3-0-0) 19ECSE302 - The ARM Architecture(2-1-0)

19ECS




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Semester VII

Sl. No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	17ECSC401	Big Data & Analytics	PC	2-0-1	3	4	50	50	100	3 hours
2	20ECSC402	Information Security	PC	2-0-1	3	4	50	50	100	3 hours
3	XXECSE4XX	Professional Elective-3	EC	3-0-0	3	3	50	50	100	3 hours
4	XXECSE4XX	Professional Elective-4	EC	3-0-0	3	3	50	50	100	3 hours
5	XXECSE4XX	Professional Elective-5	EC	3-0-0	3	3	50	50	100	3 hours
6	20ECSW401	Senior Design Project	PW	0-0-6	6	3	50	50	100	3 hours
7	15EHSA401	CIPE(Audit)	HS	0-0-0	0	2	50	50	100	3 hours
TOTAL				13-0-8	21	22	350	350	700	

ISA: In Semester Assessment

ESA: End Semester Assessment

L: Lecture

T: Tutorials

P: Practical

Date:


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Program Head



Semester: VIII

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	XXECSE4XX	Professional Elective-6	EC	3-0-0	3	3	50	50	100	3 hours
2	XXECSE4XX	Open Elective	OE	3-0-0	3	3	50	50	100	3 hours
3*	18ECSI493	Industry Training	PW	0-0-6	6	6	80	20	100	3hours
4	20ECSW494	Industry Project	PW	0-0-11	11	22	50	50	100	3 hours
	20ECSW402	Capstone Project								
TOTAL				6-0-11	17	34	150	150	300	

ISA: In Semester Assessment

ESA: End Semester Assessment

L: Lecture

T: Tutorials

P: Practical

*Note students can either choose (1, 2 & 4) or (3 & 4).

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Professional Elective – 3, 4 and 5

Data Engineering	Networking	Systems Engineering
18ECSE402 - Social Network Analysis (3-0-0)	Unix Network Programming (18ECSE404) (3-0-0)	18ECSE407 - Software Testing (3-0-0)
18ECSE403 - Natural Language Processing (3-0-0)	Software Defined Networks (20ECSE405) (3-0-0)	18ECSE409 - C# Programming & .Net (3-0-0)
19ECSE402 - Fuzzy Set Theory (3-0-0)	Cyber Security (19ECSE401) (2-0-1)	18ECSE408 - Advanced Parallel Computing (3-0-0)
	Mobile and Wireless Networks (20ECSE412) (3-0-0)	18ECSE410 - Software Architecture and Design Thinking (3-0-0)
		18ECSE411 - Model Thinking (3-0-0)

Open Elective

15ECSO401 - Distributed and Cloud Computing (2-0-1)	15ECSO403- Software Engineering (3-0-0)
15ECSO402 - Database Management System (3-0-0)	18ECSO401 - Big Data Analytics (3-0-0)
15ECSO404 - High Performance Computing for Engineering Applications (3-0-0)	
15ECSO405 - Essential of IT (3-0-0)	

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Semester: III

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB204	Graph Theory and Linear Algebra	PC	4-0-0	4	4	50	50	100	3 hours
2	19ECSC202	Discrete Mathematical Structures	PC	3-1-0	4	5	50	50	100	3 hours
3	18ECSC201	Computer Organization and Architecture	PC	4-0-0	4	4	50	50	100	3 hours
4	19ECSC201	Data Structures and Algorithms	PC	3-1-0	4	5	50	50	100	3 hours
5	19ECSC203	Principles of Compiler Design	PC	3-1-0	4	5	50	50	100	3 hours
6	19ECSP201	Data Structures and Algorithms Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	18ECSP202	Computer Organization and Architecture Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
TOTAL				17-3-3.5	23.5	30	490	310	800	

ISA: In Semester Assessment

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L: Lecture

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Semester: IV

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB209	Applied Statistics	BS	3-1-0	4	5	50	50	100	3 hours
2	18ECSC206	Microcontroller: Programming and Interfacing	PC	3-0-1	4	5	50	50	100	3 hours
3	18ECSC207	Object Oriented Programming with C++	PC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC208	Database Management System	PC	4-0-0	4	4	50	50	100	3 hours
5	18ECSC202	Operating System Principles and Programming	PC	4-0-1	5	6	50	50	100	3 hours
6	15ECSP204	Database Applications Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
7	18ECSP203	Object Oriented Programming with C++ Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
				17-1-5	23	29	410	290	700	

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Year: 2019-23

Semester: III

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	15EMAB204	Graph Theory and Linear Algebra	PC	4-0-0	4	4	50	50	100	3 hours
2	19ECSC202	Discrete Mathematical Structures	PC	3-1-0	3	5	50	50	100	3 hours
3	20ECSC201	Computer Organization and Architecture	PC	4-0-0	4	4	50	50	100	3 hours
4	20ECSC205	Data Structures and Algorithms	PC	4-0-0	4	4	50	50	100	3 hours
5	19ECSC203	Principles of Compiler Design	PC	3-1-0	3	5	50	50	100	3 hours
6	19ECSP201	Data Structures and Algorithms Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	20ECSP202	Computer Organization and Architecture Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
TOTAL					18-2-3.5	23.5	29	410	290	700

ISA: In Semester Assessment

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Year: 2019-23

Semester: IV

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	20EMAB209	Applied Statistics with R	BS	3-1-0	4	5	50	50	100	3 hours
2	20ECSC206	Microcontroller: Programming and Interfacing	PC	3-0-1	4	5	50	50	100	3 hours
3	20ECSC204	Object-Oriented Programming	PC	3-0-0	3	3	50	50	100	3 hours
4	15ECSC208	Database Management System	PC	4-0-0	4	4	50	50	100	3 hours
5	18ECSC202	Operating System Principles and Programming	PC	4-0-1	5	6	50	50	100	3 hours
6	15ECSP204	Database Applications Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
7	20ECSP203	Object Oriented Programming Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
				17-1-5	23	29	410	290	700	

ISA: In Semester Assessment

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