



**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	21ECSC201	Computer Organization and Architecture	PC	3-0-1	4	5	50	50	100	3 hours
4	20ECSC205	Data Structures and Algorithms	PC	4-0-0	4	4	50	50	100	3 hours
5	15ECSC208	Database Management System	PC	4-0-0	4	4	50	50	100	3 hours
6	19ECSP201	Data Structures and Algorithms Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	15ECSP204	Database Applications Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
<b>TOTAL</b>				<b>18-1-4.5</b>	<b>23.5</b>	<b>29</b>	<b>410</b>	<b>290</b>	<b>700</b>	

**ISA:** In Semester Assessment

**ESA:** End Semester Assessment

**L:** Lecture

**T:** Tutorials

**P:** Practical

Date:

Program Head



**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	21ECSC206	Microcontroller: Programming and Interfacing	PC	1-0-3	4	7	100	00	100	3 hours
3	20ECSC204	Object-Oriented Programming	PC	3-0-0	3	3	50	50	100	3 hours
4	19ECSC203	Principles of Compiler Design	PC	3-1-0	4	5	50	50	100	3 hours
5	18ECSC202	Operating System Principles and Programming	PC	4-0-1	5	6	50	50	100	3 hours
6	21ECSC210	Exploratory Data Analysis	PC	2-0-2	4	6	80	20	100	3 hours
7	20ECSP203	Object Oriented Programming Lab	PC	0-0-1.5	1.5	3	80	20	100	3 hours
				<b>16-2-7.5</b>	<b>25.5</b>	<b>35</b>	<b>460</b>	<b>240</b>	<b>700</b>	

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**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	17ECSC306	Machine Learning	PC	2-0-1	3	4	50	50	100	3 hours
5	18ECSC301	Data Mining & Analysis	PC	3-0-1	4	5	80	20	100	3 hours
6	21ECSP304	Web Technologies Lab	PC	0-0-2	2	4	80	20	100	3 hours
7	19ECSP302	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
<b>TOTAL</b>				<b>14-1-8.5</b>	<b>23.5</b>	<b>30</b>	<b>490</b>	<b>310</b>	<b>800</b>	

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**Semester: VI**

No	Code	Course	Category	L-T-P	Credits	Contact Hours	ISA	ESA	Total	Exam Duration
1	20ECSC303	Computer Networks-2	PC	3-0-0	3	3	50	50	100	3 hours
2	20ECSC305	Distributed & Cloud Computing	PC	2-0-1	3	4	50	50	100	3 hours
3	16EHSC301	Professional Aptitude & Logical Reasoning	HS	3-0-0	3	3	50	50	100	3 hours
4	1XECSE3XX	Professional Elective-1	PC	3-0-0	3	3	50	50	100	3 hours
5	1XECSE3XX	Professional Elective-2	PC	3-0-0	3	3	50	50	100	3 hours
6	21ECSC307	Blockchain and Distributed Ledgers	PC	2-0-1	3	4	50	50	100	3 hours
7	20ECSP305	Computer Networks 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
				<b>16-0-9.5</b>	<b>25.5</b>	<b>26</b>	<b>430</b>	<b>370</b>	<b>800</b>	

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<b>Professional Elective – 1 &amp; 2</b>		
<b>Data Engineering</b>	<b>Networking</b>	<b>Systems Engineering</b>
18ECSE301 - Computer Vision (2-0-1) 17ECSE309 - Algorithmic Problem Solving (0-0-6) 19ECSE303 - Semantic Web  Signals & Systems (21ECSE313) Fundamentals of Image & Video Processing (21ECSE312) Neural Networks & Deep Learning (21ECSE314)	17ECSE303 - Internet of Things (2-0-1) 17ECSE304 - Active Directory Domain Services ( 2-0-1) 21ECSE310 - DevOps (0-0-3) 21ECSE332 - Data Integration and Cloud Services (0-0-3) Multimedia Networks (21ECSE311)	17ECSE307 - Parallel Computing (3-0-0) 17ECSE306 - Quantum Computing 18ECSE302 - Embedded Intelligent Systems (0-0-3) 19ECSE302 - The ARM Architecture (2-1-0) 20ECSE301 - Robotic Process Automation  Design & Development