(Government Aided Autonomous Institute)



## **Credit System for**

Final Year B.Tech. (Information Technology)
Sem-VII and VIII

AY 2020-21



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## Credit System for Final Year B.Tech. (Information Technology) Sem-VII AY 2020-21

Sr.No.	Category	<b>Course Code</b>	Course Name		T	P	Hrs	Credits	ISE-1	MSE*	ISE-2	ESE
Professional Core (Theory)												
1	PC	3IT401	Cryptography and Network Security			0	4	4	10	30	10	50
2	PC	3IT402	Data Mining	3	0	0	3	3	10	30	10	50
3	HS	3IC401	Engineering Management and Ethics	4	0	0	4	4	10	30	10	50
Professional Core (Lab)												
4	PC	3IT451	Open Source Software Lab	2	0	2	4	3	25	25	25	25
5	PC	3IT452	Data Mining Lab	0	0	2	2	1	25	25	25	25
6	PC	3IT453	Software Testing and Quality Analysis Lab		0	2	4	3	25	25	25	25
7	PC	3IT491	Project 1			4	4	2	25	25	25	25
Professional Elective (Theory												
8	PE	Refer list	Professional Elective 4		1	0	3	3	10	30	10	50
Open Elective												
9	OE	Refer list	Open Elective 3	3	0	0	3	3	10	30	10	50
Value Added Professional Courses #												
Value Added Life-Skill Courses #												
			<del></del>									
			Total	19	2	10	31	26				



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### Course List for Final Year B.Tech. (Information Technology) Sem-VII AY 2020-21

Sr.No.	<b>Course Code</b>	Course Name							
Professional Elective 4									
1	3IT411	High Performance Computing							
2	3IT412 Mobile Ad-hoc Networks and Sensors								
3	3IT413	Deep Learning							
4	3IT414	Digital Image Processing							
5	3IT415	Software Defined Network							

	Open Elective 3								
1	1OE402	Finite Element Method							
2	1OE416	Concrete Engineering and Technology							
3	1OE417	Computational Methods and Optimization Techniques							
4	1OE429	Automobile Engineering							
5	1OE443	Industrial Automation							
6	1OE457	Cyber Physical Systems							
7	1OE471	Business Intelligence							
8	1OE485	Data Visualization and Interpretation							

#### **Notes:**

The list of Value added courses will be updated from time to time. The courses may be on paid basis.

The credits earned from these courses will be shown on grade card. For SPI and CPI calculation, these courses will be excluded.

These courses will be offered as per availability of faculty

@ Minimum 2 mandatory life skill courses are to be completed for award of degree.

\$ Contact hours of each Final Year BTech project batch (of min 5 students) with the guide shall be 1 hour/week.

For further details refer to Academic and Examination rules and regulations.

<sup>\*</sup> For Lab courses, there will be only internal continuous assessment. ESE is a separate head of passing for both theory and lab courses.

<sup>#</sup> The Value Added Courses are Optional Courses. The mode of teaching (LTPI) is decided by the resource person.



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## Credit System for Final Year B.Tech. (Information Technology) Sem-VIII AY 2020-21

Sr.No.	Category	<b>Course Code</b>	C	Course Name		L	T	P	Hrs Cre	dits	ISE-1	MSE*	ISE-2	ESE
	Professional Core (Theory)													
Professional Core (Lab)														
1	PC	3IT492	Project 2			0	0	20	20 1	0	25	25	25	25
2	PC	3IT493	Techno -Socio Outreach			0	1	0	1		25	25	25	25
	Professional Elective (Theory)													
3	PE	Refer list	Professional Elective 5			2	1	0	3	3	10	30	10	50
	Value Added Professional Courses #													
Value Added Life-Skill Courses #														
					•							•		•
				Tota	ıl	2	2	20	24 1	4				



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### Course List for Final Year B.Tech. (Information Technology) Sem-VIII AY 2020-21

Sr.No.	<b>Course Code</b>	Course Name
		Professional Elective 5
1	3IT431	Soft Computing
2	3IT432	Geographical Information System
3	3IT433	Business Intelligence
4	3IT434	Visual Computing
5	3IT435	Software Architecture and Design

#### **Notes:**

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