

## Semester III

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121301CS	Discrete Structures	C	3	2	-	-	-	40	60	4	100
070121302CS	Programming Paradigms	C	3	-	-	-	-	30	45	3	75
070121303CS	Fundamentals of Data Structures	C	3	2	-	-	-	40	60	4	100
070121304CS	Computer Organization	C	3	2	-	-	-	40	60	4	100
070121305CS	Digital Electronics and Logic Circuits	ID	3	2	-	-	-	40	60	4	100
070121306CS	Industrial Management	ID	3	-	-	-	-	30	45	3	75
070121307CS	Programming Paradigms Lab	C	-	-	2	10	15	-	-	1	25
070121308CS	Fundamentals of Data Structures Lab	C	-	-	4	20	30	-	-	2	50
070121309CS	Digital Electronics and Logic Circuits Lab	ID	-	-	2	10	15	-	-	1	25
<b>Total</b>			<b>18</b>	<b>8</b>	<b>8</b>	<b>40</b>	<b>60</b>	<b>220</b>	<b>330</b>	<b>26</b>	<b>650</b>
070121310CS	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	<b>1</b>	-

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

## Semester IV

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121401CS	Engineering Mathematics III	ES	3	2	-	-	-	40	60	4	100
070121402CS	Fundamentals of Operating Systems	C	3	-	-	-	-	30	45	3	75
070121403CS	Java and Web Technologies	C	4	2	-	-	-	50	75	5	125
070121404CS	Software Engineering	C	3	2	-	-	-	40	60	4	100
070121405CS	Data structures	C	3	-	-	-	-	30	45	3	75
070121406CS	Microprocessor Techniques	ID	3	-	-	-	-	30	45	3	75
070121407CS	Fundamentals of Operating Systems Lab	C	-	-	2	10	15	-	-	1	25
070121408CS	Java and Web Technologies Lab	C	-	-	4	20	30	-	-	2	50
070121409CS	Data Structures Lab	C	-	-	2	10	15	-	-	1	25
070121410CS	Microprocessor Techniques Lab	ID	-	-	2	10	15	-	-	1	25
	<b>Total</b>		<b>19</b>	<b>6</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>220</b>	<b>330</b>	<b>27</b>	<b>675</b>
070121411CS	Project	C	-	-	<b>8</b>	-	-	<b>100</b>	-	<b>4</b>	<b>100</b>
070121412CS	Global Immersion Programme	C	-	-	-	-	-	-	<b>300</b>	<b>12</b>	<b>300</b>

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## Semester V

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical		CA			ESE
						Int	Ext				
070121501CS	Data Base Management Systems	C	4	-	-	-	-	40	60	4	100
070121502CS	Theory of Computation	C	3	2	-	-	-	40	60	4	100
070121503CS	Computer Networks	C	4	-	-	-	-	40	60	4	100
070121504CS	Computer Graphics and Multimedia	C	3	-	-	-	-	30	45	3	75
070121505CS	Design and Analysis of Algorithms	C	4	-	-	-	-	40	60	4	100
070121506 CS	Data Base Management Systems Lab	C	-	-	4	20	30	-	-	2	50
070121507CS	Computer Networks Lab	C	-	-	2	10	15	-	-	1	25
070121508CS	Computer Graphics and Multimedia Lab	C	-	-	2	10	15	-	-	1	25
070121509CS	Design and Analysis of Algorithms Lab	C	-	-	2	10	15	-	-	1	25
070121510CS	Operations Research	ID	2	2	-	-	-	30	45	3	75
	<b>Total</b>		<b>20</b>	<b>4</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>220</b>	<b>330</b>	<b>27</b>	<b>675</b>

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

## Semester VI

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
			L	T	Lab	Practical	CA	ESE			
Group A						Int	Ext				
070121601CS	Internship (6 Months)					-	-	400	-	16	400
OR											
070121629CS	Global Immersion Programme								400	16	400
070121602CS	Seminar					-	-	100	-	04	100
	<b>Total</b>					-	-	<b>500</b>	-	<b>20</b>	<b>500</b>
OR											
070121629CS	Global Immersion Programme								300	12	300
070121630CS	Project	PD			8			100		04	100
070121602CS	Seminar							100		04	100
	<b>Total</b>							<b>200</b>	<b>300</b>	<b>20</b>	<b>500</b>
OR											
Group B											
070121603CS	Project	C	-	-	8	-	-	100	-	4	100
070121604CS	Internship(6-8 Weeks)	C	-	-	8	-	-	100	-	4	100
070121605-622CS	Liberal Arts	GP	2	-	-	-	-	50	-	2	50
070121623CS	Service Learning	GP	2	-	-	-	-	50	-	2	50
070121624CS	Digital Signal Processing	C	3	-	-	-	-	30	45	3	75
070121625CS	Internet Technologies	C	2	-	-	-	-	20	30	2	50
070121626CS	Performing Arts	GP	-	-	2	10	15	-	-	1	25
070121627CS	Digital Signal Processing Lab	C	-	-	2	10	15	-	-	1	25
070121628CS	Internet Technologies Lab	C	-	-	2	10	15	-	-	1	25
	<b>Total</b>		<b>09</b>	-	<b>22</b>	<b>30</b>	<b>45</b>	<b>350</b>	<b>75</b>	<b>20</b>	<b>500</b>

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

Courses for Liberal Arts(Select any one)	
070121605 CS	Technical Writing
070121606 CS	Creative Writing
070121607 CS	Principles of Economics
070121608 CS	Intellectual Property Rights
070121609 CS	Cyber Law
070121610 CS	Creativity and Innovations

070121611 CS	Society and Science
070121612 CS	Sustainability Studies
070121613 CS	Environmental Awareness : Only One Earth
070121614 CS	Impact Of Science and Technology on Human Civilization
070121615 CS	Women and Gender Studies
070121616 CS	Organizational Behavior
070121617 CS	Quantitative Reasoning: Mathematics
070121618 CS	Photography
070121619 CS	German
070121620 CS	French
070121621 CS	Chinese
070121622 CS	Philosophy

**Semester VII**

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks	
			L	T	Lab	Practical		CA	ESE			
						Int	Ext					
070121701CS	Distributed Systems	C	3	-	-	-	-	30	45	3	75	
070121702CS	Total Quality Management	C	3	-	-	-	-	30	45	3	75	
070121703CS	System Programming	C	3	2	-	-	-	40	60	4	100	
070121704CS	Object Oriented Analysis and Design	C	3	-	-	-	-	30	45	3	75	
070121705CS	Network Security	C	3	-	-	-	-	30	45	3	75	
070121706CS	Distributed Systems Lab	C	-	-	2	10	15	-	-	1	25	
070121707CS	Total Quality Management Lab	C	-	-	2	10	15	-	-	1	25	
070121708CS	Object Oriented Analysis and Design Lab	C	-	-	4	20	30	-	-	2	50	
070121709CS	Network Security Lab	C	-	-	2	10	15	-	-	1	25	
070121710CS	Entrepreneurship	PD	2	-	-	-	-	50	-	2	50	
070121711-22CS	Free Elective	GP	3	-	-	-	-	30	45	3	75	
	<b>Total</b>		<b>20</b>	<b>2</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>240</b>	<b>285</b>	<b>26</b>	<b>650</b>	
<b>070121723CS</b>	<b>Global Immersion Programme</b>									<b>300</b>	<b>12</b>	<b>300</b>

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

<b>Courses for Free Elective (Select Any One)</b>	
070121711CS	Geographic Information Systems
070121712 CS	Earthquake Engineering
070121713 CS	JAVA
070121714 CS	Open Source Technologies

070121715 CS	Database Management System
070121716 CS	MATLAB
070121717 CS	Printed Circuit Board (PCB) Design
070121718 CS	Fundamentals of Automotive Technology
070121719 CS	Six Sigma
070121720 CS	Nanotechnology
070121721 CS	Smart Material Science
070121722 CS	Introduction to Statistical Product and Service Solutions (SPSS)

**Semester VIII**

Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121801CS	Project	PD	-	-	8	40	60	-	-	4	100
070121802CS	Compiler Construction	C	3	-	-	-	-	30	45	3	75
070121803CS	Advanced Databases	C	4	-	-	-	-	40	60	4	100
070121804CS	Design Patterns	C	4	-	-	-	-	40	60	4	100
070121805CS	Business Informatics	C	2	-	2	-	-	30	45	3	75
070121806-8CS	Elective – I	C	3	-	-	-	-	30	45	3	75
070121809-11CS	Elective – II	C	3	-	-	-	-	30	45	3	75
070121812CS	Compiler Construction Lab	C	-	-	2	10	15	-	-	1	25
070121813CS	Advanced Databases Lab	C	-	-	2	10	15	-	-	1	25
<b>Total</b>			<b>19</b>	<b>-</b>	<b>14</b>	<b>60</b>	<b>90</b>	<b>200</b>	<b>300</b>	<b>26</b>	<b>650</b>

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self-study/assignments.

<b>Electives for Semester VIII (choose any one)- Elective – I</b>											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121806CS	Artificial Intelligence	C	3	-	-	-	-	30	45	3	75
070121807CS	Image Processing & Pattern Recognition	C	3	-	-	-	-	30	45	3	75
070121808CS	Cloud Computing	C	3	-	-	-	-	30	45	3	75
<b>Electives for Semester VIII (Choose any one)- Elective – II</b>											
Course Code	Title of the Course	Nature of Course	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121809CS	Embedded Systems	C	3	-	-	-	-	30	45	3	75
070121810CS	Neural Networks	C	3	-	-	-	-	30	45	3	75
070121811CS	Advanced Computer Architecture	C	3	-	-	-	-	30	45	3	75

For 2 hours tutorial, there will be 1 hour classroom teaching and 1 hour for projects/self - study/assignments.

L- Lecture , T-Tutorial, HA-Home Assignment

C - Core Course

ES - Engineering Science Course

GP - General Proficiency Course

ID - Inter Disciplinary Course

PD - Professional Development Course

CA- Continuous Assessment, ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

Int- Internal (Practical)

Ext- External (Practical)

Practical external examination may be conducted by alternate internal faculty

\*Integrated Disaster Management course is mandatory for the award of degree.