

## Semester III

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7492	070121301 CS	Discrete Structures	C	3	2	-	-	-	40	60	4	100
T7512	070121302 CS	Programming Paradigms	C	3	-	-	-	-	30	45	3	75
T7495	070121303 CS	Fundamentals of Data Structures	C	3	2	-	-	-	40	60	4	100
T7483	070121304 CS	Computer Organization	C	3	2	-	-	-	40	60	4	100
T7554	070121305 CS	Digital Electronics and Logic Design	ID	3	2	-	-	-	40	60	4	100
T7513	070121306 CS	Programming Paradigms Lab	C	-	-	2	10	15	-	-	1	25
T7496	070121307 CS	Fundamentals of Data Structures Lab	C	-	-	4	20	30	-	-	2	50
T7555	070121308 CS	Digital Electronics and Logic Design Lab	ID	-	-	2	10	15	-	-	1	25
<b>Liberal Arts - Choose any two of the following</b>												
T6184	070121309 CS	Basic German I	ID	2	-	-	-	-	50	-	2	50
T6185	070121310 CS	Basic German II	ID	2	-	-	-	-	50	-	2	50
T6186	070121311 CS	Basic French I	ID	2	-	-	-	-	50	-	2	50
T6187	070121312 CS	Basic French II	ID	2	-	-	-	-	50	-	2	50
T6188	070121313 CS	Basic Spanish I	ID	2	-	-	-	-	50	-	2	50
T6189	070121314 CS	Basic Spanish II	ID	2	-	-	-	-	50	-	2	50
T6167	070121315 CS	Basics of Microeconomics	ID	2	-	-	-	-	50	-	2	50
T6168	070121316 CS	Basics of Macroeconomics	ID	2	-	-	-	-	50	-	2	50
T6274	070121317 CS	Foundations of Ethics	ID	2	-	-	-	-	50	-	2	50
T6275	07012318 CS	Concept of Wealth and Prosperity	ID	2	-	-	-	-	50	-	2	50
		<b>Total</b>		<b>19</b>	<b>8</b>	<b>8</b>	<b>40</b>	<b>60</b>	<b>290</b>	<b>285</b>	<b>27</b>	<b>675</b>
T4005	070121319 CS	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	-	Letter Grade

## Semester IV

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7380	070121401 CS	Applied Mathematics	ES	3	2	-	-	-	40	60	4	100
T7510	070121402 CS	Operating Systems	C	3	-	-	-	-	30	45	3	75
T7501	070121403 CS	Java and Web Technologies	C	3	2	-	-	-	40	60	4	100
T7516	070121404 CS	Software Engineering	C	3	2	-	-	-	40	60	4	100
T7488	070121405 CS	Data Structures	C	3	-	-	-	-	30	45	3	75
T7577	070121406 CS	Microprocessor Techniques	ID	3	-	-	-	-	30	45	3	75
T7511	070121407 CS	Operating Systems Lab	C	-	-	2	10	15	-	-	1	25
T7500	070121408 CS	Java and Web Technologies Lab	C	-	-	4	20	30	-	-	2	50
T7489	070121409 CS	Data Structures Lab	C	-	-	2	10	15	-	-	1	25
T7578	070121410 CS	Microprocessor Techniques Lab	ID	-	-	2	10	15	-	-	1	25
T7674	070121411 CS	Cyber Security	C	2	-	-	-	-	50	-	2	50
		<b>Total</b>		<b>20</b>	<b>6</b>	<b>10</b>	<b>50</b>	<b>75</b>	<b>260</b>	<b>315</b>	<b>28</b>	<b>700</b>
	070121412 CS	Global Immersion Programme	C	-	-	-	-	-	-	<b>375</b>	<b>15</b>	<b>375</b>
	070121413 CS	Project	C	-	-	<b>6</b>	-	-	<b>75</b>	-	<b>3</b>	<b>75</b>

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

For the student who opt for "Global Immersion Programme" 070121412 CS and "Project" 070121413 CS the courses 070121401CS to 070121405CS will be waved off

## Semester V

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7486	070121501 CS	Data Base Management Systems	C	4	-	-	-	-	40	60	4	100
T7518	070121502 CS	Theory of Computation	C	3	2	-	-	-	40	60	4	100
T7481	070121503 CS	Computer Networks	C	4	-	-	-	-	40	60	4	100
T7490	070121504 CS	Design and Analysis of Algorithms	C	4	-	-	-	-	40	60	4	100
T7487	070121505 CS	Data Base Management Systems Lab	C	-	-	4	20	30	-	-	2	50
T7482	070121506 CS	Computer Networks Lab	C	-	-	2	10	15	-	-	1	25
T7491	070121507 CS	Design and Analysis of Algorithms Lab	C	-	-	2	10	15	-	-	1	25
T7644	070121508 CS	Operations Research	ID	2	2	-	-	-	30	45	3	75
	070121509 CS	Inter Institute Course I	C	2					50	-	2	50
	070121510 CS	Inter Institute Course II	C	2					50	-	2	50
		<b>Total</b>		<b>21</b>	<b>4</b>	<b>8</b>	<b>40</b>	<b>60</b>	<b>290</b>	<b>285</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

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
<b>Group A</b>												
T7920	070121601 CS	Internship (6 Months)	PD	-	-	-	195	130	-	-	13	325
T7671	070121602 CS	Seminar	PD	-	-	-	60	40	-	-	04	100
	070121608 CS	Global Immersion Program	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	-	-	-	-	<b>255</b>	<b>170</b>	-	-	<b>17</b>	<b>425</b>
<b>OR</b>												
<b>Group B</b>												
T7905	070121603 CS	Internship(6-8 Weeks)	PD	-	-	10	75	50	-	-	5	125
T7558	070121604 CS	Digital Signal Processing	C	4	-	-	-	-	40	60	4	100
T7475	070121605 CS	Business Informatics	C	3	-	-	-	-	30	45	3	75
T7559	070121606 CS	Digital Signal Processing Lab	C	-	-	2	10	15	-	-	1	25
T7048	070121607 CS	Project Management	GP	4	-	-	-	-	40	60	4	100
		<b>Total</b>		<b>11</b>	<b>-</b>	<b>12</b>	<b>85</b>	<b>65</b>	<b>110</b>	<b>165</b>	<b>17</b>	<b>425</b>

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

## Semester VII

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7493	070121701 CS	Distributed Systems	C	3	-	-	-	-	30	45	3	75
T7517	070121702 CS	System Programming	C	3	-	-	-	-	30	45	3	75
T7507	070121703 CS	Object Oriented Analysis and Design	C	3	-	-	-	-	30	45	3	75
T7138	070121704 CS	Network Security	C	3	-	-	-	-	30	45	3	75
T7494	070121705 CS	Distributed Systems Lab	C	-	-	2	10	15	-	-	1	25
T7479	070121706 CS	Computer Graphics and Multimedia	C	3	-	-	-	-	30	45	3	75
T7508	070121707 CS	Object Oriented Analysis Design Lab	C	-	-	2	10	15	-	-	1	25
T7480	070121708 CS	Computer Graphics and Multimedia Lab	C	-	-	2	10	15	-	-	1	25
T8000	070121709 CS	Service Learning		4	-	-	-	-	100		4	100
<b>Free Elective (Choose any one of the following)</b>												
T7457	070121710 CS	Integrated Water Resources Development and Management		3	-	-	-	-	30	45	3	75
T7456	070121711 CS	Town and Country Planning		3	-	-	-	-	30	45	3	75
T7499	070121712 CS	JAVA		3	-	-	-	-	30	45	3	75
T7509	070121713 CS	Open Source Technologies		3	-	-	-	-	30	45	3	75
T7474	070121714 CS	Basics of Database		3	-	-	-	-	30	45	3	75
T7574	070121715 CS	MATLAB		3	-	-	-	-	30	45	3	75
T7584	070121716 CS	Printed Circuit Board (PCB) Design		3	-	-	-	-	30	45	3	75
T7616	070121717 CS	Fundamentals of Automotive Technology		3	-	-	-	-	30	45	3	75
T7650	070121718 CS	Six Sigma		3	-	-	-	-	30	45	3	75
T7020	070121719 CS	Nanotechnology		3	-	-	-	-	30	45	3	75
T7394	070121720 CS	Smart Material		3	-	-	-	-	30	45	3	75
T7393	070121721 CS	Computer based Statistical Packages		3	-	-	-	-	30	45	3	75
<b>Total</b>				<b>22</b>	<b>-</b>	<b>6</b>	<b>30</b>	<b>45</b>	<b>280</b>	<b>270</b>	<b>25</b>	<b>625</b>

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

## Semester VIII

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
				L	T	Lab	Practical		CA	ESE		
							CA	ESE				
T7804	070121801 CS	B.Tech Project	PD	-	-	8	40	60	-	-	4	100
T7477	070121802 CS	Compiler Construction	C	3	-	-	-	-	30	45	3	75
T7471	070121803 CS	Advanced Database Management System	C	4	-	-	-	-	40	60	4	100
T7137	070121804 CS	Design Patterns	C	4	-	-	-	-	40	60	4	100
T7139	070121805 CS	Software Testing and Quality Assurance	C	3	-	-	-	-	30	45	3	75
T7478	070121806 CS	Compiler Construction Lab	C	-	-	2	10	15	-	-	1	25
T7472	070121807 CS	Advanced Database Management System Lab	C	-	-	2	10	15	-	-	1	25
T7080	070121808 CS	Software Testing and Quality Assurance Lab	C	-	-	2	10	15	-	-	1	25
<b>Elective – I (Choose any one of the following)</b>												
T7473	070121809 CS	Artificial Intelligence	C	3	-	-	-	-	30	45	3	75
T7573	070121810 CS	Image Processing and Pattern Recognition	C	3	-	-	-	-	30	45	3	75
T7078	070121811 CS	Software Product Line Management	C	3	-	-	-	-	30	45	3	75
<b>Elective – II (Choose any one of the following)</b>												
T7568	070121812 CS	Embedded Systems	C	3	-	-	-	-	30	45	3	75
T7476	070121813 CS	Cloud Computing	C	3	-	-	-	-	30	45	3	75
T7470	070121814 CS	Advanced Computer Architecture	C	3	-	-	-	-	30	45	3	75
<b>Total</b>				<b>20</b>	<b>-</b>	<b>14</b>	<b>70</b>	<b>105</b>	<b>200</b>	<b>300</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.

L- Lecture , T-Tutorial  
HA-Home Assignment

C - Core Course

ES - Engineering Science Course

GP - General Proficiency Course

ID - Inter Disciplinary Course

CA- Continuous Assessment

ESE- End Semester Examination

Practical, CA, ESE are separate heads of Passing

PD - Professional Development Course

Practical external examination may be conducted by alternate internal faculty