

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				
070121301 IT	Discrete Structures	C	3	2	-	-	-	40	60	4	100
070121302 IT	Programming Paradigms	C	3	-	-	-	-	30	45	3	75
070121303 IT	Fundamentals of Data Structures	C	3	2	-	-	-	40	60	4	100
070121304 IT	Computer Organization	C	3	2	-	-	-	40	60	4	100
070121305 IT	Digital Electronics and Logic Circuits	ID	3	2	-	-	-	40	60	4	100
070121306 IT	Industrial Management	ID	3	-	-	-	-	30	45	3	75
070121307 IT	Programming Paradigms Lab	C	-	-	2	10	15	-	-	1	25
070121308 IT	Fundamentals of Data Structures Lab	C	-	-	4	20	30	-	-	2	50
070121309 IT	Digital Electronics and Logic Circuits Lab	ID	-	-	2	10	15	-	-	1	25
	Total		18	8	8	40	60	220	330	26	650
070121310 IT	*Integrated Disaster Management	GP	-	-	-	-	-	-	-	1	-

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				
070121401 IT	Engineering Mathematics III	ES	3	2	-	-	-	40	60	4	100
070121402 IT	Fundamentals of Operating Systems	C	3	-	-	-	-	30	45	3	75
070121403 IT	Java and Web Technologies	C	4	2	-	-	-	50	75	5	125
070121404 IT	Software Engineering	C	3	2	-	-	-	40	60	4	100
070121405 IT	Data Structures	C	3	-	-	-	-	30	45	3	75
070121406 IT	Microprocessor Techniques	ID	3	-	-	-	-	30	45	3	75
070121407 IT	Fundamentals of Operating Systems Lab	C	-	-	2	10	15	-	-	1	25
070121408 IT	Java and Web Technologies Lab	C	-	-	4	20	30	-	-	2	50
070121409 IT	Data Structures Lab	C	-	-	2	10	15	-	-	1	25
070121410 IT	Microprocessor Techniques Lab	ID	-	-	2	10	15	-	-	1	25
	Total		19	6	10	50	75	220	330	27	675

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

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				
070121501IT	Data Base Management Systems	C	4	-	-	-	-	40	60	4	100
070121502IT	Theory of Computation	C	3	2	-	-	-	40	60	4	100
070121503IT	Computer Networks	C	4	-	-	-	-	40	60	4	100
070121504IT	Computer Graphics and Multimedia	C	3	-	-	-	-	30	45	3	75
070121505IT	Internet Technologies	C	4	-	-	-	-	40	60	4	100
070121506IT	Data Base Management Systems Lab	C	-	-	4	20	30	-	-	2	50
070121507IT	Computer Networks Lab	C	-	-	2	10	15	-	-	1	25
070121508IT	Computer Graphics and Multimedia Lab	C	-	-	2	10	15	-	-	1	25
070121509IT	Internet Technologies Lab	C	-	-	2	10	15	-	-	1	25
070121510IT	Operations Research	ID	2	2	-	-	-	30	45	3	75
	Total		20	4	10	50	75	220	330	27	675
070121511IT	Global Immersion Programme		!	!	!	!	!	!	!	375	15
											375

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	La b	Practical	CA	ESE			
Group A						Int	Ext				
070121601 IT	Internship (6 Months)	PD	-	-	-	-	-	400	-	16	400
OR											
070121628IT	Global Immersion Programme	-	-	-	-	-	-	-	-	-	-
070121602 IT	Seminar	PD	-	-	-	-	-	100	-	04	100
	Total		-	-	-	-	-	500	-	20	500
OR											
Group B											
070121603IT	Project	PD	-	-	8	-	-	100	-	4	100
070121604 IT	Internship(6-8 weeks)	PD	-	-	-	-	-	100	-	4	100
070121605-622IT	Liberal Arts	GP	2	-	-	-	-	50	-	2	50
070121623IT	Service Learning	GP	2	-	-	-	-	50	-	2	50
070121624IT	Mobile Computing	C	4	-	-	-	-	40	60	4	100
070121625IT	Human Computer Interaction	C	2	-	-	-	-	20	30	2	50
070121626IT	Performing Arts	GP	-	-	2	10	15	-	-	1	25
070121627IT	Mobile Computing Lab	C	-	-	2	10	15	-	-	1	25
	Total		10	-	12	20	30	360	90	20	500

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

Courses for Liberal Arts			
070121605 IT	Technical Writing	070121614 IT	Impact of Science and Technology on Human Civilization
070121606 IT	Creative Writing	070121615 IT	Women and Gender Studies
070121607 IT	Principles of Economics	070121616 IT	Organizational Behavior
070121608 IT	Intellectual Property Rights	070121617 IT	Quantitative Reasoning: Mathematics
070121609 IT	Cyber Law	070121618 IT	Photography
070121610 IT	Creativity and Innovations	070121619 IT	German
070121611 IT	Society and Science	070121620 IT	French
070121612 IT	Sustainability Studies	070121621 IT	Chinese
070121613 IT	Environmental Awareness : Only One Earth	070121622 IT	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				
070121701IT	Distributed Systems	C	3	-	-	-	-	30	45	3	75
070121702IT	Total Quality Management	C	3	-	-	-	-	30	45	3	75
070121703IT	System Programming	C	3	2	-	-	-	40	60	4	100
070121704IT	Object Oriented Analysis and Design	C	3	-	-	-	-	30	45	3	75
070121705IT	Network Security	C	3	-	-	-	-	30	45	3	75
070121706IT	Distributed Systems Lab	C	-	-	2	10	15	-	-	1	25
070121707IT	Total Quality Management Lab	C	-	-	2	10	15	-	-	1	25
070121708IT	Object Oriented Analysis Design Lab	C	-	-	4	20	30	-	-	2	50
070121709IT	Network Security Lab	C	-	-	2	10	15	-	-	1	25
070121710IT	Entrepreneurship	PD	2	-	-	-	-	50	-	2	50
070121711-22IT	Free Elective	GP	3	-	-	-	-	30	45	3	75
	Total		20	2	10	50	75	240	285	26	650

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

Courses for free elective	
070121711 IT	Geographic Information Systems
070121712 IT	Earthquake Engineering
070121713 IT	JAVA
070121714 IT	Open Source Technologies
070121715 IT	Database Management System
070121716 IT	MATLAB
070121717 IT	Printed Circuit Board (PCB) Design
070121718 IT	Fundamentals of Automotive Technology
070121719 IT	Six Sigma
070121720 IT	Nanotechnology
070121721 IT	Smart Material Science
070121722 IT	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				
070121801IT	Project	PD	-	-	8	40	60	-	-	4	100
070121802IT	Web Services and SOA	C	3	-	-	-	-	30	45	3	75
070121803IT	Advanced Databases	C	4	-	-	-	-	40	60	4	100
070121804IT	Design Patterns	C	4	-	-	-	-	40	60	4	100
070121805IT	Management Information System	C	3	-	-	-	-	30	45	3	75
070121806-808 IT	Elective – I	C	3	-	-	-	-	30	45	3	75
070121809-811 IT	Elective – II	C	3	-	-	-	-	30	45	3	75
070121812IT	Web Services and SOA Lab	C	-	-	2	10	15	-	-	1	25
070121813IT	Advanced Databases Lab	C	-	-	2	10	15	-	-	1	25
Total			20	-	12	60	90	200	300	26	650

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

Electives for Semester VIII(Choose any one)-Elective I											
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				
070121806 IT	SAP	C	3	-	-	-	-	30	45	3	75
070121807 IT	Search Engine Optimization	C	3	-	-	-	-	30	45	3	75
070121808 IT	Cloud Computing	C	3	-	-	-	-	30	45	3	75

Electives for Semester VIII (Choose any one)-Elective II											
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				
070121809IT	Usability	C	3	-	-	-	-	30	45	3	75
070121810IT	Software Product Line Management	C	3	-	-	-	-	30	45	3	75
070121811IT	Middle Ware Technologies	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.