

Prog.Structure Bachelor of Technology-Computer Science (2012-16)

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ES E		
						Int	Ext				
070121301 CS	Discrete Structures	C	3	2	0	0	0	40	60	4	100
070121302 CS	Programming Paradigms	C	3	0	0	0	0	30	45	3	75
070121303 CS	Fundamentals of Data Structures	C	3	2	0	0	0	40	60	4	100
070121304 CS	Computer Organization	C	3	2	0	0	0	40	60	4	100
070121305 CS	Digital Electronics and Logic Circuits	ID	3	2	0	0	0	40	60	4	100
070121306 CS	Integrated Disaster Management	GP	3#	0	0	0	0	75#	0	3#	75#
070121307 CS	Industrial Management	ID	3	0	0	0	0	30	45	3	75
070121308 CS	Programming Paradigms lab	C	0	0	2	10	15	0	0	1	25
070121309 CS	Fundamentals of Data Structures lab	C	0	0	4	20	30	0	0	2	50
70121310 CS	Digital Electronics and Logic Circuits lab	ID	0	0	2	10	15	0	0	1	25
	Total		18	8	8	40	60	220	330	26	650

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

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Semester IV											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						In t	Ext				
070121401 CS	Engineering Mathematics III	ES	3	2	0	0	0	40	60	4	100
070121402 CS	Fundamentals of Operating Systems	C	3	0	0	0	0	30	45	3	75
070121403 CS	Java and Web Technologies	C	4	2	0	0	0	50	75	5	125
070121404 CS	Software Engineering	C	3	2	0	0	0	40	60	4	100
070121405 CS	Data structures	C	3	0	0	0	0	30	45	3	75
070121406 CS	Microprocessor Techniques	ID	3	0	0	0	0	30	45	3	75
070121407 CS	Fundamentals of Operating Systems Lab	C	0	0	2	10	15	0	0	1	25
070121408 CS	Java and Web Technologies Lab	C	0	0	4	20	30	0	0	2	50
070121409 CS	Data Structures Lab	C	0	0	2	10	15	0	0	1	25
070121410 CS	Microprocessor Techniques Lab	ID	0	0	2	10	15	0	0	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.

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Semester V											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121501 CS	Data Base Management Systems	C	4	0	0	0	0	40	60	4	100
070121502 CS	Theory of Computation	C	3	2	0	0	0	40	60	4	100
070121503 CS	Computer Networks	C	4	0	0	0	0	40	60	4	100
070121504 CS	Computer Graphics and Multimedia	C	3	0	0	0	0	30	45	3	75
070121505 CS	Design and Analysis of Algorithms	C	4	0	0	0	0	40	60	4	100
070121506 CS	Data Base Management Systems Lab	C	0	0	4	20	30	0	0	2	50
070121507 CS	Computer Networks Lab	C	0	0	2	10	15	0	0	1	25
070121508 CS	Computer Graphics and Multimedia Lab	C	0	0	2	10	15	0	0	1	25
070121509 CS	Design and Analysis of Algorithms Lab	C	0	0	2	10	15	0	0	1	25
070121510 CS	Operations Research	ID	2	2	0	0	0	30	45	3	75
	Total		20	4	10	50	75	220	330	27	675
070121511 CS	Global Immersion Programme	C	0	0	0	0	0	0	450	18	450
070121512 CS	Project	C	0	0	0	0	0	75	0	3	75
070121513 CS	Global Immersion Programme	C	0	0	0	0	0	0	300	12	300

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

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Project Semester VI											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical	CA	ESE			
Group A						Int	Ext				
070121601 CS	Internship (6 Months)					0	0	400	0	16	400
OR											
070121628 CS	Global Immersion Programme	-	-	-	-	-	-	-	-	-	-
070121602 CS	Seminar					0	0	100	0	04	100
	Total					0	0	500	0	20	500
OR											
Group B											
070121603 CS	Project	C	0	0	8	0	0	100	0	4	100
070121604 CS	Internship(6-8 Weeks)	C	0	0	8	0	0	100	0	4	100
070121605 -22CS	Liberal Arts	GP	2	0	0	0	0	50	0	2	50
070121623 CS	Service Learning	GP	2	0	0	0	0	50	0	2	50
070121624 CS	Digital Signal processing	C	3	0	0	0	0	30	45	3	75
070121625 CS	Internet Technologies	C	3	0	0	0	0	30	45	3	75
070121626 CS	Digital Signal processing Lab	C	0	0	2	10	15	0	0	1	25
070121627 CS	Internet Technologies Lab	C	0	0	2	10	15	0	0	1	25
	Total		10	0	20	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 (Choose any one)	
070121605 CS	Technical Writing
070121606 CS	Creative Writing
070121607 CS	Principles of Economics
070121608 CS	Intellectual Property Rights
070121609 CS	Cyber Law

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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											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121701 CS	Distributed Systems	C	3	0	0	0	0	30	45	3	75
070121702 CS	Total Quality Management	C	3	0	0	0	0	30	45	3	75
070121703 CS	System Programming	C	3	2	0	0	0	40	60	4	100
070121704 CS	Object Oriented Analysis and Design	C	3	0	0	0	0	30	45	3	75
070121705 CS	Network Security	C	3	0	0	0	0	30	45	3	75
070121706 CS	Distributed Systems Lab	C	0	0	2	10	15	0	0	1	25
070121707 CS	Total Quality Management Lab	C	0	0	2	10	15	0	0	1	25
070121708 CS	Object Oriented Analysis and Design Lab	C	0	0	4	20	30	0	0	2	50

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070121709 CS	Network Security Lab	C	0	0	2	10	15	0	0	1	25
070121710 CS	Entrepreneurship	PD	2	0	0	0	0	50	0	2	50
070121711-722 CS	Free Elective	GP	3	0	0	0	0	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(Choose any one)	
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											
Subject Code	Subject	Nature of Subject	Teaching			Examination Scheme				Total Credits	Total Marks
			L	T	Lab	Marks					
						Practical	CA	ESE			
			Int	Ext							
070121801	Project	PD	0	0	8	40	60	0	0	4	100

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CS											
070121802 CS	Compiler Construction	C	3	0	0	0	0	30	45	3	75
070121803 CS	Advanced Databases	C	4	0	0	0	0	40	60	4	100
070121804 CS	Design Patterns	C	4	0	0	0	0	40	60	4	100
070121805 CS	Business Informatics	C	2	0	2	0	0	30	45	3	75
070121806 -8 CS	Elective – I	C	3	0	0	0	0	30	45	3	75
070121809- 11 CS	Elective – II	C	3	0	0	0	0	30	45	3	75
070121812 CS	Compiler Construction Lab	C	0	0	2	10	15	0	0	1	25
070121813 CS	Advanced Databases Lab	C	0	0	2	10	15	0	0	1	25
Total			19	0	14	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)											
Subject Code	Elective – I	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121806 CS	Artificial Intelligence	C	3	0	0	0	0	30	45	3	75
070121807 CS	Image Processing & Pattern Recognition	C	3	0	0	0	0	30	45	3	75
070121808 CS	Cloud Computing	C	3	0	0	0	0	30	45	3	75

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Electives for Semester VIII (Choose any one)											
Subject Code	Elective – II	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121809 CS	Embedded Systems	C	3	0	0	0	0	30	45	3	75
070121810 CS	Neural Networks	C	3	0	0	0	0	30	45	3	75
070121811 CS	Advanced Computer Architecture	C	3	0	0	0	0	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 Subject

ES - Engineering Science Subject

GP - General Proficiency Subject

ID - Inter Disciplinary Subject

PD - Professional Development Subject

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

- Credits Over & above 200