

**Prog. Structure Bachelor of Technology-Information Technology
(2012-16)**

Semester III											
Subject Code	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks				Total Credits	Total Marks
			L	T	Lab	Practical		CA	ESE		
						Int	Ext				
070121301 IT	Discrete Structures	C	3	2	0	0	0	40	60	4	100
070121302 IT	Programming Paradigms	C	3	0	0	0	0	30	45	3	75
070121303 IT	Fundamentals of Data Structures	C	3	2	0	0	0	40	60	4	100
070121304 IT	Computer Organization	C	3	2	0	0	0	40	60	4	100
070121305 IT	Digital Electronics and Logic Circuits	ID	3	2	0	0	0	40	60	4	100
070121306 IT	Integrated Disaster Management#	GP	3#	0	0	0	0	75#	0	3	75#
070121307 IT	Industrial Management	ID	3	0	0	0	0	30	45	3	75
070121308 IT	Programming Paradigms lab	C	0	0	2	10	15	0	0	1	25
070121309 IT	Fundamentals of Data Structures lab	C	0	0	4	20	30	0	0	2	50
070121310 IT	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		
						Int	Ext				
070121401 IT	Engineering Mathematics III	ES	3	2	0	0	0	40	60	4	100
070121402 IT	Fundamentals of Operating Systems	C	3	0	0	0	0	30	45	3	75
070121403 IT	Java and Web Technologies	C	4	2	0	0	0	50	75	5	125
070121404 IT	Software Engineering	C	3	2	0	0	0	40	60	4	100
070121405 IT	Data structures	C	3	0	0	0	0	30	45	3	75
070121406 IT	Microprocessor Techniques	ID	3	0	0	0	0	30	45	3	75
070121407 IT	Fundamentals of Operating Systems Lab	C	0	0	2	10	15	0	0	1	25
070121408 IT	Java and Web Technologies Lab	C	0	0	4	20	30	0	0	2	50
070121409 IT	Data Structures Lab	C	0	0	2	10	15	0	0	1	25
070121410 IT	Microprocessor Techniques Lab	ID	0	0	2	10	15	0	0	1	25
Total			19	6	10	50	75	220	330	27	675

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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 IT	Data Base Management Systems	C	4	0	0	0	0	40	60	4	100
070121502 IT	Theory of Computation	C	3	2	0	0	0	40	60	4	100
070121503 IT	Computer Networks	C	4	0	0	0	0	40	60	4	100
070121504 IT	Computer graphics and Multimedia	C	3	0	0	0	0	30	45	3	75
070121505 IT	Internet Technologies	C	4	0	0	0	0	40	60	4	100
070121506 IT	Data Base Management Systems Lab	C	0	0	4	20	30	0	0	2	50
070121507 IT	Computer Networks Lab	C	0	0	2	10	15	0	0	1	25
070121508 IT	Computer graphics and Multimedia Lab	C	0	0	2	10	15	0	0	1	25
070121509 IT	Internet Technologies Lab	C	0	0	2	10	15	0	0	1	25
070121510 IT	Operations Research	ID	2	2	0	0	0	30	45	3	75
Total			20	4	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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Project Semester VI											
Subject Code	Subject	Nature of Subject	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)							400		16	400
OR											
070121627 IT	Global Immersion Programme	-	-	-	-	-	-	-	-	-	-
070121602 IT	Seminar							100		04	100
	Total							500		20	500
OR											
Group B											
070121603 IT	Project		0	0	8	0	0	100	0	4	100
070121604 IT	Internship(6-8 weeks)		0	0	0	0	0	100	0	4	100
070121605-622IT	Liberal Arts	GP	2	0	0	0	0	50	0	2	50
070121623 IT	Service Learning	GP	2	0	0	0	0	50	0	2	50
070121624 IT	Mobile Computing	C	4	0	0	0	0	40	60	4	100
070121625 IT	Human Computer Interaction	C	3	0	0	0	0	30	45	3	75
070121626 IT	Mobile Computing Lab	C	0	0	2	10	15	0	0	1	25
	Total		11	0	10	10	15	370	105	20	500

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Courses for Liberal Arts (Choose any one)	
070121605 IT	Technical Writing
070121606 IT	Creative Writing
070121607 IT	Principles of Economics
070121608 IT	Intellectual Property Rights
070121609 IT	Cyber Law
070121610 IT	Creativity and Innovations
070121611 IT	Society and Science
070121612 IT	Sustainability and Studies
070121613 IT	Environmental Awareness : Only One Earth
070121614 IT	Impact Of Science and Technology On Human Civilization
070121615 IT	Women and Gender Studies
070121616 IT	Organizational Behavior
070121617 IT	Quantitative Reasoning: Mathematics
070121618 IT	Photography
070121619 IT	German
070121620 IT	French
070121621 IT	Chinese
070121622 IT	Philosophy

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Semester VII											
Subject	Subject	Nature of Subject	Teaching Scheme			Examination Scheme Marks			Total Credits	Total Marks	
Code			L	T	Lab	Practical	CA	ESE			
						Int	Ext				
070121701 IT	Distributed Systems	C	3	0	0	0	0	30	45	3	75
070121702 IT	Total Quality Management	C	3	0	0	0	0	30	45	3	75
070121703 IT	System Programming	C	3	2	0	0	0	40	60	4	100
070121704 IT	Object oriented analysis and Design	C	3	0	0	0	0	30	45	3	75
070121705 IT	Network Security	C	3	0	0	0	0	30	45	3	75
070121706 IT	Distributed Systems Lab	C	0	0	2	10	15	0	0	1	25
070121707 IT	Total Quality Management Lab	C	0	0	2	10	15	0	0	1	25
070121708 IT	Object Oriented Analysis Design Lab	C	0	0	4	20	30	0	0	2	50
070121709 IT	Network Security Lab	C	0	0	2	10	15	0	0	1	25
070121710 IT	Entrepreneurship	PD	2	0	0	0	0	50	0	2	50
070121711-722 IT	Free Elective	GP	3	0	0	0	0	30	45	3	75
	Total		20	2	10	50	75	240	285	26	650

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Courses for free elective (Choose any one)	
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)

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Semester VIII											
Subject	Subject	Nature of	Teaching			Examination Scheme				Total	Total
Code		Subject	Scheme	L	T	Lab	Practical		CA	ESE	Credits
						Int	Ext				
070121801 IT	Project	PD	0	0	8	40	60	0	0	4	100
070121802 IT	Web Services and SOA	C	3	0	0	0	0	30	45	3	75
070121803 IT	Advanced Databases	C	4	0	0	0	0	40	60	4	100
070121804 IT	Design Patterns	C	4	0	0	0	0	40	60	4	100
070121805 IT	Management Information System	C	3	0	0	0	0	30	45	3	75
070121806-808 IT	Elective – I	C	3	0	0	0	0	30	45	3	75
070121809-811 IT	Elective – II	C	3	0	0	0	0	30	45	3	75
070121812 IT	Web Services and SOA Lab	C	0	0	2	10	15	0	0	1	25
070121813 IT	Advanced Databases Lab	C	0	0	2	10	15	0	0	1	25
Total			20	0	12	60	90	200	300	26	650

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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 IT	SAP	C	3	0	0	0	0	30	45	3	75	
070121807 IT	Search Engine Optimization	C	3	0	0	0	0	30	45	3	75	
070121808 IT	Cloud Computing	C	3	0	0	0	0	30	45	3	75	

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 IT	Usability	C	3	0	0	0	0	30	45	3	75	
070121810IT	Software Product Line Management	C	3	0	0	0	0	30	45	3	75	
070121811IT	MiddleWare technologies	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 CA- Continuous Assessment, ESE- End Semester Examination
 C - Core Subject Practical, CA, ESE are separate heads of Passing
 ES - Engineering Science Subject Int- Internal (Practical)
 GP - General Proficiency Subject Ext- External (Practical)
 ID - Inter Disciplinary Subject Practical external examination may be conducted by alternate internal faculty
 PD - Professional Development Subject # - Credits Over & above 200