

**B. Sc. INFORMATION TECHNOLOGY HONOURS AS PER CHOICE BASED CREDIT SYSTEM**

	<b>CORE COURSE (14) (Credit 6 for each course)</b>	<b>Ability Enhancement Compulsory Course (AECC) (2) (Credit 4 for each course)</b>	<b>Skill Enhancement Course (SEC) (2) (Credit 4 for each course)</b>	<b>Elective: Discipline Specific DSE (4) (Credit 6 for each course)</b>	<b>Elective: Generic (GE) (4) (Credit 6 for each course)</b>
I	<b>C1:</b> Discrete Mathematics (3+1)	Professional Communication Skill (3+1)			<b>GE-1:</b> Green Computing (4+2) <b>OR</b> Basic Computer Skills and Effective Internet Use (4+2)
	<b>C2:</b> Imperative Programming (3+1) <b>C3:</b> Introduction to Digital Electronics (3+1)				
II	<b>C4:</b> Numerical and Statistical Methods (3+1) <b>C5:</b> Object oriented Programming (3+1)	Life And Employability Skills (3+1)			<b>GE-2:</b> Web Programming and Designing (4+2) <b>OR</b> E Commerce (4+2)
	<b>C6:</b> Operating System (3+1)				
III	<b>C7:</b> Applied Mathematics (3+2)		<b>SEC-1:</b> Linux System Administration <b>OR</b> Core Java (3+1)		<b>GE-3:</b> Web Technology (4+2) <b>OR</b> Research Methodology (4+2)
	<b>C8:</b> Microprocessor Architecture (3+2)				
	<b>C9:</b> Database Management System (3+2)				
IV	<b>C10:</b> Computer Oriented Statistical Techniques (3+2)		<b>SEC-2:</b> Python Programming. (3+1) <b>OR</b> Enterprise Java (3+1)		<b>GE-4:</b> Supply chain Management (4+2) <b>OR</b> Statistical tools in Research (4+2)
	<b>C11:</b> Introduction to Embedded System (3+2)				
	<b>C12:</b> Data Structures (3+2)				
V	<b>C13:</b> Internet of Things (3+2)			<b>DSE-1:</b> Security in Computing (4+2) <b>OR</b> Software Project Management (4+2)	
	<b>C14:</b> Software Quality Assurance (3+2)				
	<b>C15:</b> Project (5)			<b>DSE-2:</b> Advanced Web Programming (4+2) <b>OR</b> Data Science (4+2)	

VI	<b>C16:</b> Computer Networks (3+2)			<b>DSE-3:</b> Cyber Laws (4+2) <b>OR</b> Machine Learning (4+2)
	<b>C17:</b> Business Intelligence (3+2) <b>C18:</b> Principles of Geographic Information Systems (3+2)			<b>DSE-4:</b> Mobile Computing (4+2) <b>OR</b> Data analysis and Visualization (4+2)

Credit and Workload Calculation B.Sc. Information Technology Program as per CBCS pattern							
Sem	Course Type	Course Code	Course Name	Credit	Semester Wise Credit	Workload (TH+PR)	Semester wise Workload (TH+PR)
I	CORE COURSE	UGIT101	Discrete Mathematics (3+1)	4	22	3+2	16+12=28
	CORE COURSE	UGIT102	Imperative Programming (3+1)	4		3+2	
	CORE COURSE	UGIT103	Introduction to Digital Electronics (3+1)	4		3+2	
	Ability Enhancement Compulsory Course (AECC)	UGIT104	Professional Communication Skill (3+1)	4		3+2	
	Elective: Generic (GE)	UGIT105A OR UGIT105B	Green Computing (4+2) OR Basic Computer Skills and Effective Internet Use (4+2)	6		4+4	
II	CORE COURSE	UGIT201	Numerical and Statistical Methods (3+1)	4	22	3+2	16+12=28
	CORE COURSE	UGIT202	Object oriented Programming (3+1)	4		3+2	
	CORE COURSE	UGIT203	Operating System (3+1)	4		3+2	
	Ability Enhancement Compulsory Course (AECC)	UGIT204	Life And Employability Skills (3+1)	4		3+2	
	Elective: Generic (GE)	UGIT205A OR UGIT205B	Web Programming and Designing (4+2) OR Management Information System (4+2)	6		4+4	
III	CORE COURSE	UGIT301	Applied Mathematics (3+2)	5	25	3+4=7	16+18=34

	CORE COURSE	UGIT302	Microprocessor Architecture (3+2)	5		3+4=7	
	CORE COURSE	UGIT303	Database Management System (3+2)	5		3+4=7	
	Skill Enhancement Course (SEC)	UGIT304A OR UGIT304B	Linux System Administration OR Core Java (3+1)	4		3+2=5	
	Generic Elective	UGIT305A OR UGIT305B	Web Technology (4+2) OR Research Methodology (4+2)	6		4+4=6	
IV	CORE COURSE	UGIT401	Computer Oriented Statistical Techniques (3+2)	5	25	3+4=7	16+18=34
	CORE COURSE	UGIT402	Introduction to Embedded System (3+2)	5		3+4=7	
	CORE COURSE	UGIT403	Data Structures (3+2)	5		3+4=7	
	Skill Enhancement Course (SEC)	UGIT404A OR UGIT404B	Python Programming. (3+1) OR Enterprise Java (3+1)	4		3+2=5	
	Generic Elective	UGIT405A OR UGIT405B	Supply chain Management (4+2) OR statistical tools in Research (4+2)	6		4+4=6	
V	CORE COURSE	UGIT501	Internet of Things (3+2)	5	27	3+4=7	17+20=37
	CORE COURSE	UGIT502	Software Quality Assurance (3+2)	5		3+4=7	
	CORE COURSE	UGIT503	Project (5)	5		3+4=7	
	Elective: Discipline Specific DSE	UGIT504A OR UGIT504B	Security in Computing (4+2) OR Software Project Management (4+2)	6		4+4=8	
	Elective: Discipline Specific DSE	UGIT505A OR UGIT505B	Advanced Web Programming (4+2) OR Data Science (4+2)	6		4+4=8	
VI	CORE COURSE	UGIT601	Computer Networks (3+2)	5	27	3+4=7	17+20=37
	CORE COURSE	UGIT602	Business Intelligence (3+2)	5		3+4=7	
	CORE COURSE	UGIT603	Principles of Geographic Information Systems (3+2)	5		3+4=7	

	Elective: Discipline Specific DSE	UGIT604A OR UGIT604B	Cyber Laws (4+2) OR Machine Learning (4+2)	6		4+4=8	
	Elective: Discipline Specific DSE	UGIT605A OR UGIT605B	Mobile Computing (4+2) OR Data analysis and Visualization (4+2)	6		4+4=8	
					<b>148</b>		<b>198</b>

