

First Year B.sc(Comp Sci) Semester I (Total credits=22)

Course type	Paper Code	Paper title	Credits		Evaluation		
			Th	Pr	CA	UA	TOTAL
	CS-111	Problem Solving using Computer and 'C' Programming	2		15	35	50
CC-I	CS-112	Database Management Systems	2		15	35	50
	CS-113	Practical course based on CS101 and CS102		1.5	15	35	50
CC-II	MTC- 111	Matrix Algebra	2		15	35	50
	MTC-112	Discrete Mathematics	2		15	35	50
	MTC-113	Mathematics Practical		1.5	15	35	50
CC-III	ELC-111	Semiconductor Devices and Basic Electronic Systems	2		15	35	50
	ELC -112	Principles of Digital Electronics	2		15	35	50
	ELC-113	Electronics Lab IA		1.5	15	35	50
CC-IV	CSST -111	Descriptive Statistics I	2		15	35	50

	CSST- 112	Mathematical Statistics	2		15	35	50
	CSST113	Statistics Practical Paper I		1.5	15	35	50

First Year B.sc(Comp Sci) Semester II (Total credits=22)

Course type	Paper Code	Paper title	Credits		Evaluation		
			Th	Pr	CA	UA	TOTAL
CC-V	CS-121	Advanced 'C' Programming	2		15	35	50
	CS-122	Relational Database Management Systems	2		15	35	50
	CS-123	Practical course based on CS201 and CS202		1.5	15	35	50
CC-VI	MTC- 121	Linear Algebra	2		15	35	50
	MTC-122	Graph Theory	2		15	35	50
	MTC- 123	Mathematics Practical		1.5	15	35	50
CC-VII	ELC-121	Instrumentation System	2		15	35	50
	ELC-122	Basics of Computer Organisation	2		15	35	50
	ELC- 123	Electronics Lab IB		1.5	15	35	50
CC-VIII	CSST121	Methods of Applied Statistics	2		15	35	50

	CSST122	Continuous Probability Distributions and Testing of Hypothesis	2		15	35	50
	CSST123	Statistics Practical Paper II		1.5	15	35	50

Th- Theory, Pr- Practical, CA- Continues Assessment, UA- University Assessment

Second Year B.sc(Comp Sci) Semester III (Total credits=22)

Course type	Paper Code	Paper title	Credits		Evaluation		
			Th	Pr	CA	UA	TOTAL
CC-VIII	CS 231	Data Structures and Algorithms – I	2		15	35	50
	CS 232	Software Engineering	2		15	35	50
	CS-233	Practical course on CS 231 and CS 232		2	15	35	50
CC-IX	MTC- 111	Mathematics - I	2		15	35	50
	MTC-112	Mathematics - II	2		15	35	50
	MTC-113	Mathematics Practical		2	15	35	50
CC-x	ELC-111	Electronics - I	2		15	35	50
	ELC -112	Electronics - II	2		15	35	50
	ELC-113	Practical course in Electronics		2	15	35	50

AECC-I	CSST -111	Environment Science – I	2		15	35	50
AECC-II	CSST- 112	Language Communication – I	2		15	35	50

Second Year B.sc(Comp Sci) Semester IV (Total credits=22)

Course type	Paper Code	Paper title	Credits		Evaluation		
			Th	Pr	CA	UA	TOTAL
CC-XI	CS-241	Data Structures and Algorithms – II	2		15	35	50
	CS-242	Computer Networks - I	2		15	35	50
	CS-243	Practical course on CS 241 and CS 242		2	15	35	50
CC-XII	MTC- 121	Mathematics - I	2		15	35	50
	MTC-122	Mathematics - II	2		15	35	50
	MTC- 123	Practical course in Mathematics		2	15	35	50
CC-XIII	ELC-121	Electronics - I	2		15	35	50
	ELC-122	Electronics - II	2		15	35	50
	ELC- 123	Practical course in Electronics		2	15	35	50
AECC-I	CSST121	Environment Science – II	2		15	35	50
AECC-II	CSST122	Language Communication –II	2		15	35	50

Third Year B.sc(Comp Sci) Semester III (Total credits=22)





Second Year B.sc(Comp Sci) Semester IV (Total credits=22)

Course type	Paper Code	Paper title	Credits		Evaluation		
			Th	Pr	CA	UA	TOTAL
DSEC - IV	CS-361	Operating Systems - II	2		15	35	50
	CS-362	Software Testing	2		15	35	50
	CS-367	Practical course based on CS601		2	15	35	50
DSEC - V	CS-363	Web Technologies - II	2		15	35	50
	CS-364	Data Analytics	2		15	35	50
	CS-368	Practical course based on CS603 and CS604		2	15	35	50
DSEC - VI	CS-365	Object Oriented Programming - II (Advanced Java)	2		15	35	50
	CS-366	Theoretical Computer Science and Compiler Construction - II	2		15	35	50
	CS-369	Practical Course based on CS605		2	15	35	50
SECC - III	CS-3610	Mobile Application Development	1	1	15	35	50

SECC - III	CS-3610	OR Software Testing Tools	1	1	15	35	50
SECC - IV	CS-3611	Project OR Open Elective	1	1	15	35	50