

Course Structure for (B.Sc. Mathematics/Statistics/Computer Science)

Effective from the academic year 2020 onwards

Semester 1:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
CC	English		5	-	5	40	60	100	2
CC	Second Language		5	-	5	40	60	100	2
AECC	EVS		2	-	2	20	30	50	1
DSC -1	Differential and Integral Calculus	U20/MAT/DSC/101	4	3	5	40	60	100	2
DSC-2	Descriptive Statistics & Probability	U20/STA/DSC/101	4	3	5	40	60	100	2
DSC-3	C Programming	U20/CSC/DSC/101	4	3	5	40	60	100	2

Semester 2:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
CC	English		5	-	5	40	60	100	2
CC	Second Language		5	-	5	40	60	100	2
NCGPA	Human Values		1	-	1				1
DSC -1	Differential Equations	U20/MAT/DSC/201	4	3	5	40	60	100	2
DSC-2	Probability Distributions	U20/STA/DSC/201	4	3	5	40	60	100	2
DSC-3	Database Management Systems	U20/CSC/DSC/201	4	3	5	40	60	100	2

Semester 3:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
CC	English		5	-	5	40	60	100	2
CC	Second Language		5	-	5	40	60	100	2
GE	General Elective		3	-	3	20	30	50	1
DSC -1	Abstract Algebra	U20/MAT/DSC/301	4	3	5	40	60	100	2
DSC-2	Statistical Methods	U20/STA/DSC/301	4	3	5	40	60	100	2
DSC-3	Java Programming	U20/CSC/DSC/301	4	3	5	40	60	100	2

Semester 4:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
CC	English		5	-	5	40	60	100	2
CC	Second Language		5	-	5	40	60	100	2
GE	General Elective		3	-	3	20	30	50	1
DSC -1	Real Analysis	U20/MAT/DSC/401	4	3	5	40	60	100	2
DSC-2	Testing of Hypothesis	U20/STA/DSC/401	4	3	5	40	60	100	2
DSC-3	Data Structures	U20/CSC/DSC/401	4	3	5	40	60	100	2

Semester 5:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
SEC/SEC-1	Elementary Number Theory/ Analytical Solid Geometry	U20/MAT/SEC/501/P	-	3	2	-	-	100	2
SEC/SEC-2	Statistical computing using R	U20/STA/SEC/501/P	-	3	2	-	-	100	2
SEC/SEC-3	Programming in R	U20/CSC/SEC/501/P	-	3	2	-	-	100	2
DSC -1	Linear Algebra	U20/MAT/DSC/501	4	3	5	40	60	100	2
DSC-2	Applied Statistics-I	U20/STA/DSC/501	4	3	5	40	60	100	2
DSC-3	PHP with MySQL	U20/CSC/DSC/501	4	3	5	40	60	100	2

Semester 6:

Course Type	Course Title	Course Code	Hours/Week		Credits	Max Marks		Total Marks	Duration of Sem End Exam(hrs)
			L	P		CIA	Sem End		
DSE I-1	Numerical Analysis/ Theory of Probability Vector Calculus	U20/MAT/DSE/601 U20/MAT/DSE/602	3	3	4	40	60	100	2
DSE I-2	Applied statistics – II/ Time series analysis	U20/STA/DSE/601 U20/STA/DSE/602	3	3	4	40	60	100	2
DSE I-3	Web Technologies using Java/ Operating System Concepts	U20/CSC/DSE/601 U20/CSC/DSE/602	3	3	4	40	60	100	2

DSE II / Project -1	Laplace and Fourier Transforms / Project	U20/MAT/DSE/603	3	3	4	40	60	100	2
DSC II / Project -2	Operations research/ Project	U20/STA/DSE/603	3	3	4	40	60	100	2
DSC II / Project -3	Computer Network Concepts / Project	U20/CSC/DSE/603	3	3	4	40	60	100	2