

DEPARTMENT OF PHYSICAL SCIENCES**PROGRAMME MATRIX**

Programme Title: B.Sc. Computer Science, Statistics and Mathematics
Three Majors in Semesters I – IV, Two majors in Semesters V and VI and
One Major in Semesters VII and VIII
2025-2026 BATCH

Sem	Course Type	Course Title	Credits
I	DSC	Programming in C	3
I	DSC	Programming in C Practical	1
I	DSC	Basic Statistics I	3
I	DSC	Basic Statistics I Practical	1
I	DSC	Algebra I and Calculus I	3
I	DSC	Algebra I and Calculus I Practical	1
I	AECC	English	3
I	AECC	Kannada / Hindi / Additional English	2
I	SEC	Skill Enhancement Course in Computer science	3
I	VAC	Health and Wellness	2
II	DSC	Data Structures	3
II	DSC	Data Structures Practical	1
II	DSC	Basic Statistics II	3
II	DSC	Basic Statistics II Practical	1
II	DSC	Algebra II and Calculus II	3
II	DSC	Algebra II and Calculus II Practical	1
II	MDC	Multidisciplinary Course	3
II	AECC	English	3
II	AECC	Kannada / Hindi / Additional English	2
II	SEC	Skill Enhancement Course in Mathematics	3
II	VAC	Understanding India	2
III	DSC	Programming in Java	3
III	DSC	Programming in Java Practical	1
III	DSC	Statistical Distribution and Time Series	3
III	DSC	Statistical Distribution and Time Series Practical	1
III	DSC	Ordinary Differential Equations and Real Analysis	3
III	DSC	Ordinary Differential Equations and Real Analysis Practical	1
III	MDC	Multidisciplinary Course	3
III	SEC	Skill Enhancement Course in Statistics	3
III	VAC	Environmental Science	2
IV	DSC	Computer Graphics	3
IV	DSC	Computer Graphics Practical	1
IV	DSC	Statistical Inference I and Index Numbers	3
IV	DSC	Statistical Inference I and Index Numbers Practical	1
IV	DSC	Partial Differential Equations and Integral Transforms	3

Sem	Course Type	Course Title	Credits
IV	DSC	Partial Differential Equations and Integral Transforms Practical	1
IV	MDC	Multidisciplinary Course	3
IV	SEC	Skill Enhancement Course in Computer Science	3
IV	VAC	Indian Knowledge System	2
IV	DSC-CC	Certificate Course in Computer Science	2
For the 5th and 6th semester, courses will be offered from CS, ST or CS, MM or ST, MM			
V	DSC	Operating System and Linux	4
V	DSC	Operating System and Linux Practical	2
V	DSC	Database Management System	4
V	DSC	Database Management System Practical	2
VI	DSC	Software Engineering	4
VI	DSC	Software Engineering Practical	2
V	DSC	Statistical Inference II	4
V	DSC	Statistical Inference II Practical	2
V	DSC	Analysis of Variance and Design of Experiments	4
V	DSC	Analysis of Variance and Design of Experiments Practical	2
VI	DSC	Sampling Theory and Statistical Quality Control	4
VI	DSC	Sampling Theory and Statistical Quality Control Practical	2
V	DSC	Real Analysis and Complex Analysis	4
V	DSC	Real Analysis and Complex Analysis Practical	2
V	DSC	Linear Algebra	4
V	DSC	Linear Algebra Practical	2
VI	DSC	Numerical Analysis	4
VI	DSC	Numerical Analysis Practical	2
V	DSC-RM	Research Methodology	4
V	DSC	Internship	2
VI	DSC	Project	4
For the 7th and 8th semester, courses will be offered from CS or ST or MM			
VII	DSC	Python Programming	4
VII	DSC	Python Programming Practical	2
VII	DSC	Cloud Computing	4
VII	DSC	Cloud Computing Practical	2
VII	DSC	Machine Learning Fundamentals	4
VII	DSC	Introduction to Computer Networks	4
VII	DSC	Optimization Techniques	4
VII	DSC	Optimization Techniques Practical	2
VII	DSC	Multivariate Analysis	4
VII	DSC	Multivariate Analysis Practical	2
VII	DSC	Stochastic Processes	4
VII	DSC	Distribution Theory	4
VII	DSC	Advanced Ordinary Differential Equations	4
VII	DSC	Advanced Ordinary Differential Equations Practical	2
VII	DSC	Discrete Mathematics	4

Sem	Course Type	Course Title	Credits
VII	DSC	Discrete Mathematics Practical	2
VII	DSC	Mathematical Modelling	4
VII	DSC	Basics of Cryptography	4
VIII	DSC	Fundamentals of Deep Learning	4
VIII	DSC	Digital Image Processing	3
VIII	DSC	Data Mining	3
VIII	DSC	Real Analysis and Matrix Algebra	4
VIII	DSC	Linear Models and Regression	2
VIII	DSC	Time Series Analysis	4
VIII	DSC	Advanced Partial Differential Equations	4
VIII	DSC	Advanced Numerical Analysis	3
VIII	DSC	Mathematical Statistics	3
VIII	DSC	Project	15