

# **Bachelor of Science in Computer, Statistics and Mathematics**

**(B.Sc. CSM)**

**Course Code: BCSM**

**Curriculum:**

## **Semester-I**

BCSM 101 Algebra & Trigonometry

BCSM 102 Differential Calculus

BCSM 103 Descriptive Statistics and Introductory Probability

BCSM 104 Statistics lab –I

BCSM 105 Fundamentals of Information Technology

BCSM 106 Programming Using C

BCSM 107 Software Lab-I (Based on BCSM 105 & BCSM 106)

BCSM 108 English Communication Skills

BCSM 109 Punjabi Compulsory

BCSM 109A Punjabi Compulsory (Elementary Punjabi/Mudla Gyan)

## **Semester-II**

BCSM 201 Sequence & Series

BCSM 202 Plane and Solid Geometry

BCSM 203 Probability Theory

BCSM 204 Statistics Lab- II

BCSM 205 Data Structures

BCSM 206 Data Base Management System

BCSM 207 Software Lab-II(Based on BCSM 205 & BCSM 206)

BCSM 208 English Communication Skills

BCSM 209 Punjabi Compulsory

BCSM 209 A Punjabi Compulsory (Elementary Punjabi/Mudla Gyan)

GN 201 Drugs Abuse: Problem, Management and Prevention

### **Semester-III**

BCSM 301 Integral Calculus

BCSM 302 Differential Equations-I

BCSM 303 Statistical Inference- I

BCSM 304 Applied Statistics

BCSM 305 Statistics Lab-III

BCSM 306 Web Technologies

BCSM 307 Computer Networks and Data Communication

BCSM 308 Software Lab

BCSM 309 Environmental and Road Safety Awareness

### **Semester-IV**

BCSM 401 Real Analysis

BCSM 402 Differential Equations-II

BCSM 403 Statistical Inference- II

BCSM 404 Industrial Statistics

BCSM 405 Statistics Lab-IV

BCSM 406 Python Programming

BCSM 407 Operating System

BCSM 408 Software Lab

### **Semester-V**

BCSM 501 Abstract Algebra

BCSM 502 Discrete Mathematics

BCSM 503 Computer Oriented Numerical Methods

BCSM 504 Sample Surveys

BCSM 505 Statistics lab-V

BCSM 506 Java Programming

BCSM 507 Computer Networks and Data Communication

BCSM 508 Software lab-V (Based on BCSM 506)

## **Semester-VI**

BCSM 601 Linear Algebra

BCSM 602 Mechanics

BCSM 603 Linear Programming

BCSM 604 Analysis of Variance and Design of Experiments

BCSM 605 Statistics lab-VI

BCSM 606 Advanced Database Management System

BCSM 607 Software Engineering

BCSM 608 Software Lab-VI( Based on BCSM 606 )