

# St. George College of Management and Science

## B.Sc. – (Computer Science)

(As Per the Bangalore University Syllabus)

### I Semester

- Language
- Language –English
- Physics I (Mechanics, Oscillation & Waves)/ Basic Statistics & Probability
- Mathematics-I (Differential & Integral Calculus, analytical Geometry)
- Computer Fundamentals & C Programming
- Physics Lab-I / Statistics Practical Paper – I
- C Programming Lab

### II Semester

- Language
- Language –English
- Physics II (Properties of Matter, Heat & Thermodynamics)
- Probability Distribution & Multiple Regression
- Mathematics -II (Differential & Integral Calculus, Matrices, Differential Equations)
- Data structures and Operating Systems
- Physics Lab-II / Statistics Practical Paper-II
- Data Structures Lab

### III Semester

- Language
- Language –English
- Physics -III (Electricity, Magnetism & Radiation) / Sampling, Distribution & Estimation
- Mathematics III(Sequences & Series of Real Numbers, Fourier Series & Group Theory)
- OOPS using C++ & DBMS
- Indian Constitution
- Physics Lab III
- Statistics Practical Paper –III
- C++ Lab

### IV Semester

- Language
- Language –English
- Physics -IV (Astrostatics. Optics & Lasers) / (Testing of Statistical Hypothesis)
- Mathematics -IV (Differential & Integral Calculus. Group Theory, Differential Equation) Laplace Transforms, Linear Programming)
- Software Engineering & System Software
- Physics Lab-IV / Statistics Practical Paper –IV
- DBMS lab (Mini Project)

## **V Semester**

- Human Resource
- Physics -V a (Gravitation, Space Physics, Atmospheric Physics)
- Physics -V b (quantum Mechanics. Atomic & Molecular Physics) / Sampling Theory & Applications
- Statistical Methods for Total Duality Management(Elective Paper I)
- Mathematics V (rings. geometry of Space Curves. Special functions)
- Mathematics VI (Partial Differential Equations. Numerical Analysis, Particle Dynamics)
- Internet Technology
- Basic Java & Unix Programming
- Electronics Lab
- Modern Physics Lab I / Statistics Practical Paper V
- Statistics Practical Paper VI
- Internet Lab
- Java and Unix Lab

## **VI Semester**

- Statistical Physics and Solid State Physics
- Physics VI b (Relativity, Astrophysics, Nuclear Physics) / (Experimental Designs & Demography)
- Operation Research and Programming in C (Elective2)
- Mathematics -VII (Linear Algebra, Line & Multiple Integrals, Integral Theorems, Calculus of Variations)
- Mathematics VIII- (Complex analysis, numerical analysis, Fourier transforms.)
- Interactive Computer Graphics & Computer Networks
- Modern Physics Lab2
- Modern Physics Lab3
- Statistics Practical Paper VI0049
- Statistics Practical Paper VIII
- Project Lab