

Kannada Sangha Pune's
Kaveri College of Arts, Science and Commerce, Pune

S.Y. B.Sc. (Computer Science)

Subject: Numerical Analysis (M-II, SEM I)

(2014-15 pattern)

Course Outcomes

CO1: The students will be able to derive numerical methods for various mathematical operations and tasks, such as interpolation, extrapolation, differentiation, integration.

CO2: The students will be able to understand the theoretical and practical aspects of the use of numerical analysis.

CO3: The students will be proficient in implementing numerical methods for a variety of multidisciplinary applications.

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S.Y. B.Sc. (Computer Science)

Subject: Operation Research (M-I, SEM I)

(2014-15 pattern)

Course Outcomes

CO1: The students will get the specific knowledge to formulate a Linear Programming (LP) or translate into standard form, and use the Simplex Method and duality to solve the problems.

CO2: The students will be able to construct linear programming models and find the solution techniques.

CO3: Be able to build and solve Transportation Models and Assignment Models.

CO4: The students will be able to propose the best strategy using decision making methods under uncertainty and game theory.

CO5: The students will be able to identify and develop operational research models from the verbal description of the real system.

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S.Y. B.Sc. (Computer Science)

Subject: Mathematics Practical

(2014-15 pattern)

Course Outcomes

CO1: The students will understand the mathematical tools that are needed to solve numerical problems.

CO2: The students will get the knowledge of scilab programming for solving numerical problems

CO3: The students will get the knowledge of C programming for solving mathematical problems

CO4: The students will be able to build and solve Transportation Models and Assignment Models.

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S.Y. B.Sc. (Computer Science)

Subject: Data structures using 'C' SEM I
(2014-15 pattern)

Course Outcomes

CO1: Explore algorithmic approaches to problem solving.

CO2: Formulate new solutions for programming problems or improve existing Code using learned algorithms and data structures.

CO3: Evaluate algorithms and data structures in terms of time and memory Complexity of basic operations.

CO4: Understand various data representation techniques in the real world.

CO5: Develop real-time applications using suitable data structure.

CO6: Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.

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S.Y. B.Sc. (Computer Science)

Subject: Object Oriented Programming Using C++ - SEM II
(2014-15 pattern)

Course Outcomes

CO1: Understand object-oriented programming approach.

CO2: Understand the features of C++ supporting object-oriented programming.

CO3: Understand how to apply the major object-oriented concepts to implement Object Oriented Programs in C++, encapsulation, inheritance and Polymorphism.

CO4: Understand advanced features of C++ specifically stream I/O, templates and operator overloading.

CO5: Understand how to test, debug and execute programs.

CO6: Understand the concept how to handle exception.

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S.Y. B.Sc. (Computer Science)

**Subject: Practical Data Structures Using C & Object Oriented
Programming Concepts Using C++
(2014-15 pattern)**

Course Outcomes

CO1: Identify the appropriate data structures and algorithms for solving real world problems.

CO2: Understand how to implement various kinds of searching and sorting techniques.

CO3: Understand how to analyze various algorithms based on their time and space complexity.

CO4: Understand the use Object Oriented Programming concepts for problem solving.

CO5: Understand how to implement Encapsulation, Inheritance and Polymorphism.

CO6: Understand how to produce object-oriented software using C++.

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S.Y. B.Sc. (Computer Science)

Subject : CS-212-Relational Database Management System SEM I
(2014-15 pattern)

Course Outcomes

CO1: Students will get exposed to the fundamentals & basic concepts in Relational Database Management Systems.

CO2: Students will get to know fundamental concepts of RDBMS (PL/PgSQL)

CO2: Students will learn principles of Relational Database.

CO3: Students will understand the Transaction Management System.

CO4: Students will learn data security and its importance

CO5: To learn client server architecture

CO6: Students will understand how to execute nested and complicated Queries with different PG/PLSQL operations, and how to create and manipulate databases for various applications.

CO7: Students will understand how to execute views to know data restriction and access and use procedures, functions, cursor, trigger for performing complex operation on databases.

CO10: Students will able to explain the Handling errors using exception handling concepts.

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S.Y. B.Sc. (Computer Science)

Subject : CS - 222: Software Engineering SEM II
(2014-15 pattern)

Course Outcomes

CO1: Students will learn basics of System Analysis and Design and principles of Software Engineering.

CO2: Students will understand various process models used in practice.

CO4: Students will know about the system engineering and requirement engineering and learn how to build analysis model.

CO5: Students will get aware of evaluation of software and Software Development Life Cycle (SDLC).

CO7: Students will know about Software Development Model.

CO8: Learn use of Fact-finding Techniques, Types of Requirement Modelling and Data Modelling Concepts.

CO9: Get knowledge of Design Concepts in software engineering.

CO10: Get aware about Elements of Software Quality Assurance

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S.Y. B.Sc. (Computer Science)

Subject: Database Practical & Mini Project using Software Engineering
techniques.
(2014-15 pattern)

Course Outcomes

CO1: Understanding the use of cursors, triggers, views and stored procedures

CO2: Understanding the steps of system analysis and design

CO3: Understanding Data requirements for a specific problem domain

CO4: Designing Data base as per the Data requirements

CO5: Designing queries as per the functional requirements

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S.Y. B.Sc. (Computer Science)

Subject: Applied Algebra SEM I
(2014-15 pattern)

Course Outcomes

CO1: Students should be able to solve the matrix equation $AX = B$ using row operations and matrix operations.

CO2: Student should be able to find the characteristic equation, eigen values and corresponding eigenvectors of a given matrix.

CO3: Students should be able to learn basics of applied Algebra through Matrices Theory and use them for evaluation of system of linear equations.

CO4: Students should be able to learn about vector spaces and subspaces.

CO5: Student should be able to determine if a given matrix is diagonalizable.

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S.Y. B.Sc. (Computer Science)

Subject: Computational Geometry SEM II
(2014-15 pattern)

Course Outcomes

CO1: Students will be able to explain concepts related to the design and analysis of computational geometry algorithms.

CO2: construct algorithms for simple geometrical problems.

CO3: Students will implement techniques and apply the principles of computational geometry to solve problems involving geometric input and output.

CO4: Student should able to solve the problems on Bezie'r curve.

CO5. Student should able to understand 2D and 3D transformation of object using Scaling, Shearing, rotation and translation.

CO6: able to find geometric effect of scaling, Shearing etc in unit square and triangle etc.

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S.Y. B.Sc. (Computer Science)

Subject: Digital System Hardware (SEM I)

(2014-15 pattern)

Course Outcomes

CO1: Students will able to explain various applications of logic gates.

CO2: Students can use K-maps for digital circuit design.

CO3: Students have studied and understood basics of microprocessors

CO4: Students will know the fundamentals of multicore technology

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S.Y. B.Sc. (Computer Science)

Subject: The 8051 Architecture, Interfacing & Programming (SEM II)
(2014-15 pattern)

Course Outcomes

CO1: Students will able to explain basics of 8051 microcontroller.

CO2: Students will know various interfacing techniques and its programming.

CO3: Students can apply knowledge of 8051 to design different application circuits.

CO4: Students will understand basic concepts of advanced microcontrollers.

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S.Y. B.Sc. (Computer Science)

Subject: Analog Systems (SEM I)

(2014-15 pattern)

Course Outcomes

CO1: Students will understand basics of analog electronics.

CO2: Students will learn different types of sensors.

CO3: Students will understand various types of signal conditioning circuits.

CO4: Students will get knowledge of data conversion techniques.

CO5: Students will learn applications of analog systems in various fields.

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Subject: Communication Principles (SEM II)

(2014-15 pattern)

Course Outcomes

CO1: Students will understand basics of communication systems.

CO2: Students will understand modulation, demodulation and multiplexing of signals.

CO3: Students will get knowledge of digital communication techniques.

CO4: Students will learn concepts of advanced wireless communication.

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S.Y. B.Sc. (Computer Science)

Subject: English (SEM I & SEM II)

(2014-15 pattern)

Course Outcomes

CO1: Students will learn language components such as vocabulary, synonyms, antonyms, commonly confused words.

CO2: Students will learn grammar (tenses, transformation of sentences)

CO3: Students will get knowledge of communication skills, interview techniques, essay writing, report writing.

CO4: Students will learn some English poems as prescribed in the syllabus