Sri Adichunchanagiri College of Arts and Commerce
Nagamangala, Mandya District.

Department of Computer Science

The objectives of the Program.

1. The primary objective of this program is to provide a foundation of computing principles for effectively using information systems and enterprise software.
2. It helps students analyze the requirements for system programming and exposes students for information systems
3. This programme provides students with options to specialize in various software system.
4. To produce outstanding Computer Scientists who can apply the theoretical knowledge into practice in the real world and develop standalone live projects themselves
5. To provide opportunity for the study of modern methods of information processing and its applications.
6. To develop among students the programming techniques and the problemsolving skills through programming
7. To prepare students who wish to go on to further studies in computer science and related subjects.
8. To acquaint students to Work effectively with a range of current, standard, Office Productivity software applications

Program Outcomes

1. Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity .
2. Design and Development of Solutions: Ability to design and development of algorithmic solutions to real world problems.
3. Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day scientific applications.
4. Application Systems Knowledge: Possessing a minimum knowledge to practice existing computer application software.

5. Communication: Must have a reasonably good communication knowledge both in oral and writing.

6. Lifelong Learning: Should become an independent learner. So, learn to learn ability.

7. Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.

8. Design and develop computer programs/computer-based systems in the areas related to AI, algorithms, networking, web design, cloud computing, IoT and data analytics.

9. The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.

10. The ability to work independently on a substantial software project and as an effective team member

1	**Course Outcome: Semester I: Computer Concept and C Program**	Illustrate the flowchart and designing an algorithm for a given problem to develop c programs using operators. Exercise user defined functions to solve real time problems. – c programs that use pointers to access arrays ,strings and functions. Exercise user defined data types including structures and unions to solve problems. Files concept to show input and output of files in c .
	COURSE SPECIFIC OUTCOME	On successful completion of this subject the students have the knowledge of basic computer concepts and to program in C Language.
2	**Course Outcome: Semester II: Data Structure and file processing :**	Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms Implementations Discuss the computational efficiency of the principal algorithms for sorting, searching.
	COURSE SPECIFIC OUTCOME	Better understanding of data structures. To acquaint theoretical as well as practical knowledge in the usage of various data structures and to create simple applications.
3	**Course Outcome: Semester III :** Object Oriented Programming language with Java	Able to use of OOPs concepts, abstraction, Packages and Interface, develop and understand exception handling, Multithreaded applications . Able to design GUI based applications and develop applets for web applications. Able to handle IO streams Use and create package and interfaces in a Java program.
	COURSE SPECIFIC OUTCOME	Learns the basic Java ,it is stepping stone to learn Advance Java. To inculcate knowledge on Java Programming concepts at the basic level and also provide them hands on with practical in Graphics programming.

4	**Course Outcome: Sem IV** **Data Base Management System.**	Familiarization with knowledge of database models. Ability to code database transactions using SQL. Usage of DDL, DML and TCL statements.
	COURSE SPECIFIC OUTCOME	Students learn to write Queries. To attract young minds to bring out the skills in DBMS software and networks.
5	**Course Outcome: Sem V** **Operating System and system Software/system software & operating system.**	Analyze the structure components, types, functions and components involved in OS. Understand the Deadlock and memory management. Analyze the various device and resource management techniques. Conceptualize the components involved in designing a contemporary OS.
	COURSE SPECIFIC OUTCOME	To inculcate knowledge about various Operating systems, CPU scheduling algorithms and memory management's techniques which they learn to implement it.
6	**Semester V** **Web designing**	Understand analyses and build web pages using HTML, use of frames, images, linking multiple pages. To understand design and implement typical static and dynamic web pages and interactive web applications.
7	**Course Outcome: Sem V** **Object Oriented Programming using C++**	Able to learn concepts of streams, classes, functions, data and objects • Implement dynamic memory allocation techniques & different types of functions- function overloading, operator overloading and inheritance to solve real-world problems. • Learn Objects, Classes, Methods, Constructors and Destructors. • Describe & implement the concept of constructor, destructor & operator overloading ,Inheritance Single Inheritance, Multiple Inheritance, Multi-level Inheritance, Hierarchical Inheritance and Hybrid Inheritance
	COURSE SPECIFIC OUTCOME	Students learns the concepts of Object-oriented programming using C++ and to design simple applications
8	**Course Outcome: Sem VI** **Operation Research**	Identify and develop operational research models from the verbal description of the real system. Understand the mathematical tools that are needed to solve optimization problems. Use mathematical software to solve the proposed models.
9	**Course Outcome: Sem VI** Data communication and Computer Networks.	Learn about types of network, Transmission media, mode, methods. OSI model,TCP/IP Model. Protocols HTTP, telnet, SMTP,ARP,RARP,ICMP,IGMP....
	COURSE SPECIFIC OUTCOME	To acquaint knowledge on basic Networking concepts like LAN and technologies like wireless, broadband and other design issues and also about basic data communication concepts.

Gunavathi. M

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PRINCIPAL
Sri Adichunchanagiri College
of Arts and Commerce
Nagamangala-571 432, Mandya Dist.