Yashwantrao Chavan College Of Science, Karad
Department of Computer Science
B.Sc. Computer Science (Optional)

Program Outcomes (POs) :

Upon successful completion of the B.Sc. Computer Science (Optional) the student should have met the following Student Learning Outcomes:

PO1	Apply computer science theory and software development fundamentals to produce computing–based solutions.
PO2	The education objectives of the major to produce graduates who possess: A sound technical foundation in computer science and the ability to creatively apply computer and related technologies to practical problems.
PO3	An ability to communicate and soft skills to function as an effective professional.
PO4	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
PO5	Students will be prepared for a career in an information technology oriented business or industry, or for graduate study in computer science.
PO6	An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
PO7	An ability to analyze impacts of computing on individuals, organizations and society.
PO8	An ability to apply knowledge of computing and mathematics appropriate to the discipline.

Program Specific Outcomes (PSOs):

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PSO1	Develop ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
PSO2	To prepare students to undertake careers involving problem solving using computer science and technologies.
PSO3	Develop ability to pursue advanced studies and research in computer science.
PSO4	To produce entrepreneurs who can innovate and develop software products.
PSO5	Individual and group study projects and assignments involving individual and team work encourage knowledge sharing and communication.

Head
Department of Computer Science
Yashwantrao Chavan College of Science,
Karad

Principal
Yashwantrao Chavan College of Science
Karad

Course Outcomes (COs)

	B.Sc. (Computer Science) Part I Semester I
	DSC-A11 : Problem Solving using Computers
CO1	Demonstrate a familiarity of computer programming language concepts.
CO2	Understand to develop C programs on Linux platform.
CO3	Apply C programming control structures for problem solving.
CO4	Understand working and implementation of arrays.
	DSC-A12 Database Management System
CO1	Describe the basic concepts of DBMS and various databases used in real applications.
CO2	Demonstrate the principles behind systematic database design approaches.
	B.Sc. (Computer Science) Part I Semester II
	DSC-B11 Programming Skills Using 'C'
CO1	Understand the concept and importance of pointers in C language.
CO2	Demonstrate an understanding of functions in problem solving.
CO3	Understand working of structure and dynamic memory allocation.
CO4	Apply file handling techniques using C language.
	DSC-B12 Relational Database Management System
CO1	Understand the importance and working of database.
CO2	Demonstrate an understanding of the relational data model.
CO3	Understand the concept of normalization and apply such knowledge to the normalization of a database.
CO4	Apply SQL queries for database management.
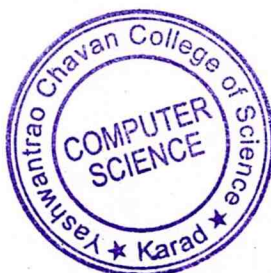
	B.Sc. (Computer Science) Part II Semester III
	DSC-C11 : Web Technology
CO1	understand the principles of web design.
CO2	construct basic websites using HTML and Cascading Style Sheets.
CO3	build dynamic web pages with validation using JavaScript.
CO4	develop a modern web application that meets the current industry requirement.
	DSC-C12 : Object Oriented Programming Using C++
CO1	understand the principles of web design.
CO2	understand how C++ improves C with object oriented features
CO3	learn syntax and semantics of C++ programming language
CO4	learn how to write inline functions for efficiency and performance.
CO5	learn how to overload functions and operators in C++.
CO6	learn how to design C++ classes for code reuse.
CO7	learn how inheritance promotes code reuse in C++.
CO8	learn how inheritance and virtual functions implement dynamic binding with polymorphism.
	B.Sc. (Computer Science) Part II Semester IV
	DSC-D11 : Cyber Security Essentials
CO1	understand the concept of information security management.
CO2	learn different access control methods.
CO3	understand wireless network security.
CO4	learn cyber security laws and the importance of security audit.
	DSC-D12 : Data Structure Using C++
CO1	understand the basic concepts such as Abstract Data Types, Linear and Non-Linear Data structures.
CO2	choose appropriate data structures to represent data items in real-world problems.
CO3	analyze the time and space complexities of algorithms.
CO4	design programs using a variety of data structures such as array, stacks, queues, and linked list.
CO5	analyze and implement various kinds of searching and sorting techniques.

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B.Sc. (Computer Science) Part III Semester V		
DSE-21E Core Java		
CO1	1.Object oriented programming concepts using Java.	
CO2	2.Knowledgeof input, its processing and getting suitable output.	
CO3	3.Understand, design, implement and evaluate classes and applets	
CO4	4. Understand concept of Multiprogramming and Exception Handling	
DSE-22E C# Programming		
CO1	This course will cover the practical aspects C#.NET framework.	
CO2	The goal of this course is to introduce the students to the basics of OOPs and windows application program.	
DSE-23E Linux part- I		
CO1	1. Upon completion of this course, students should have a good working knowledge of Linux.	
CO2	2. Allowing them to easily use any Linux distribution.	
CO3	3. This course shall help student to learn advanced subjects in computer science practically.	
DSE-24E Python Part -I		
CO1	1. To understand why Python is a useful scripting language for developers	
CO2	2. To learn how to write loops and decision statements in Python	
CO3	3. To learn how to use lists, tuples, and dictionaries in Python programs	
B.Sc. (Computer Science) Part III Semester VI		
DSE-21F Advance Java		
CO1	1) The student will be able to develop distributed business applications, develop web pages Using advanced server-side programming through servlets and Java server pages.	
CO2	2) Demonstrate approaches for performance and effective coding	
CO3	3) To learn database programming using Java	
CO4	4) To study web development concept using Servlet and JSP	
DSE-22F ASP .NET		
CO1	This course will cover the practical aspects of multi-tier web based application development using the .NET framework.	
CO2	The goal of this course is to introduce the students to the basics of distributed Web application development.	
DSDSE-23F Linux Part- II		
CO1	1. This course covers design principles of Linux Operating System Memory management.	
CO2	2. Structure of File system and virtual file system is also elaborated.	
CO3	3. This course contains details of shell programming and introduces System administration	
DSE-24F Python Part -II		
CO1	1. To learn how to write functions and pass arguments in Python	
CO2	2. To learn how to build and package Python modules for reusability	
CO3	3. To learn how to use exception handling in Python applications for error handling	