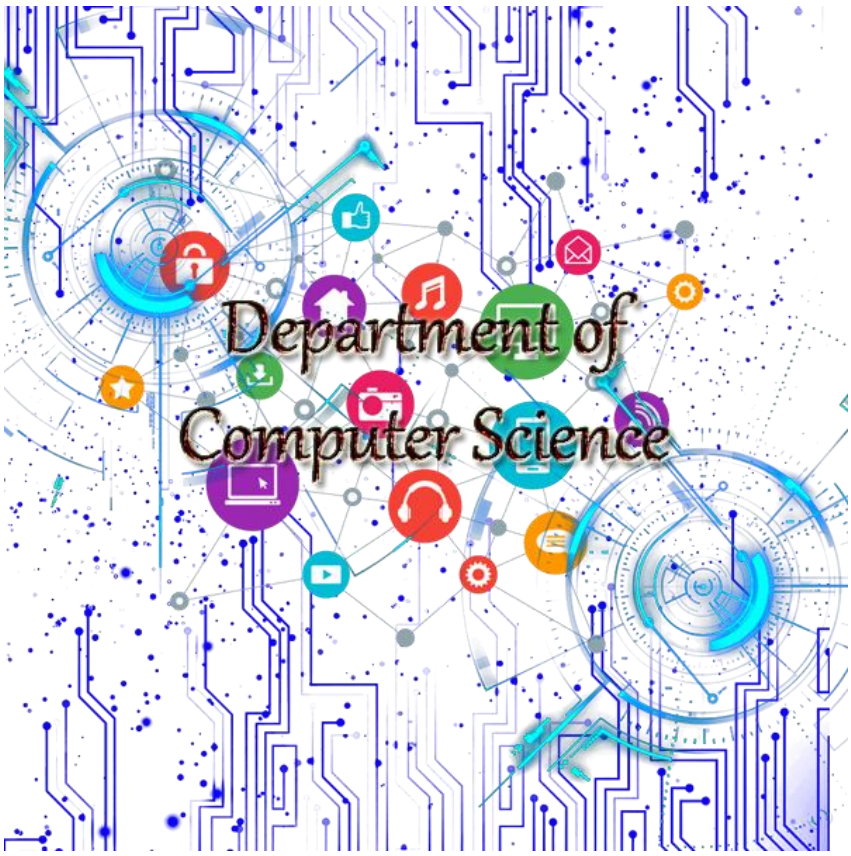
PSC & KVSC Government College

(Affiliated to Rayalaseema University, Kurnool)

Bommalasatram, Nandyal, Nandyal District

Andhra Pradesh - 518502

Est in 1967



POs, COs and PSOs Mapping

B.Sc(Computer Science)

PROGRAMME OUTCOMES (POs)

On successful completion of Graduate Program, Graduating Students/ Graduates will be able to:

PO 1	**Domain Expertise:** Able to demonstrate a thorough understanding and grasp more academic subjects that are part of an undergraduate program of study.
PO 2	**Effective Communication Skills:** **Effectively convey thoughts and ideas.** Enhance the ability to present noteworthy information in a clear and concise manner to various groups.
PO 3	**Critical Thinking:** **Evaluating and analyzing arguments, assertions, and opinions using empirical data.** The ability to identify relevant assumptions or implications and construct logical arguments. **Critically analyse practices, policies, and theories by utilizing a scientific approach to knowledge acquisition.**
PO 4	**Critical Problem Identification & Solving:** **The ability to apply one's competences to solve unfamiliar challenges based on what has been learne** Apply one's learning to real-life scenarios.
PO 5	**Teamwork / Coordination:** **Being able to facilitate a group's cooperative effort and act together as a group or team to achieve a common goal.** Work effectively as an individual as well as a member of the team.
PO 6	**IT literacy skills:** The ability to utilize ICT in various learning situations. **Using ICT tools to access, retrieve, and modify authenticated data using data analysis**
PO 7	**Life-long learning and Research related skills:** Ability to habitualize self-learning and self-motivation **Acclimate to the ever-increasing demands of the workplace and life.** Skill in planning, conducting, and reporting the outcomes of an experiment or investigation. **Ability to define a problem, test the problem, pose appropriate questions, and synthesize and articulate the problem**
PO 8	**Environmental Longevity:** Get environmental awareness and follow eco-friendly practices to create a clean environment.
PO 9	**Moral and Ethical Consciousness:** Ability to live moral and ethical ideals and to use ethical practices in all aspects of one's job. **Capable of demonstrating the ability to recognize ethical issues relevant to one's work, abstain from unethical behavior, show respect for environmental and sustainability issues, and act impartially and truthfully in all aspects of one's work.**
PO 10	**Effective Project Management:** Determine the project's goals, objectives, and components, as well as the appropriate completion date. **Plan and organize in such a way as to meet the targets on time.** Be capable of recognizing opportunities and developing contingency plans.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

With the goal of enabling students to gain a comprehensive understanding of computer knowledge as a field of study, both theoretically and practically, the Department of Computer Science of PSC & KVSC Government College, offers two three-year undergraduate programs (BSC MPCs & BSc MECs) that span six semesters. The following competences and skills will be acquired by students upon successfully completing the B.Sc. Computer Science Degree Program.

PSO 1	The capability to use computer science theory and mathematical principles in real-time problem solving.
PSO 2	The ability to make use of appropriate techniques, skills, and tools necessary for computing practice.
PSO 3	The ability to design and develop principles in the construction of software systems of diverse complexity
PSO 4	Recognizing the need and ability to pursue professional development in a continuous manner.
PSO 5	Communicate effectively on several activities and make effective presentations of them.

PSO – PO MAPPING

		Pos									
PSOs		1	2	3	4	5	6	7	8	9	10
	1	*	*		*		*				
	2	*	*	*	*		*	*			
	3	*	*	*	*			*			
	4	*	*		*		*	*		*	*
	5	*	*		*	*	*	*		*	*

COURSE OUTCOMES (COs)

Course Code: C1
Course Name: Problem solving in C

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Understand the evolution and functionality of a Digital Computer.	1	1,2,3
CO 2	Apply logical skills to analyse a given problem	2	1,4,7
CO 3	Develop an algorithm for solving a given problem.	3	3,4,7
CO 4	Understand "C" language constructs like Iterative statements, Array processing, Pointers, etc.	3	1,4,7
CO 5	Apply "C" language constructs to the algorithms to write a "C" language program.	3,4	4,6,7

Course Code: C2
Course Name: Data Structures using C

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Understand available Data Structures for data storage and processing.	1	1,2,4
CO 2	Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph	2	1,2,4
CO 3	Choose a suitable Data Structures for an application	3	1,4,7
CO 4	Develop ability to implement different Sorting and Search methods	2	2,4,9
CO 5	Have knowledge on Data Structures basic operations like insert, delete, search, update and traversal	4	1,4,7
CO 6	Design and develop programs using various data structures	3,4	1,4,7
CO 7	Implement the applications of algorithms for sorting, pattern matching etc	3	1,4,7

Course Code: C3
Course Name: Data Base Management System

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Gain knowledge of Database and DBMS	1	1,2,4
CO 2	Understand the fundamental concepts of DBMS with special emphasis on relational data model	2	1,2,7
CO 3	Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database	3	2,3,7
CO 4	Model database using ER Diagrams and design database schemas based on the model	3	2,5,7
CO 5	Create a small database using SQL	3,4	3,4,7
CO 6	Store, Retrieve data in database	3	3,4,7

Course Code: C4
Course Name: Object Oriented Programming through Java

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Understand the benefits of a well-structured program	1	1,2,4
CO 2	Understand different computer programming paradigms	2	1,2,7
CO 3	Understand underlying principles of Object-Oriented Programming in Java	2	2,3,7
CO 4	Develop problem-solving and programming skills using OOP concepts	3	2,4,7
CO 5	Develop the ability to solve real-world problems through software development in high-level programming language like Java	3,4	3,6,7

Course Code: C5
Course Name: Operating Systems

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Know Computer system resources and the role of operating system in resource management with algorithms	1	1,2,4
CO 2	Understand Operating System Architectural design and its services.	2	1,2,4
CO 3	Gain knowledge of various types of operating systems including Unix and Android.	2	4,6,7
CO 4	Understand various process management concepts including scheduling, synchronization, and deadlocks.	2	2,4,7
CO 5	Have a basic knowledge about multithreading	3	1,2,7
CO 6	Compare different approaches for memory management	2	3,4,7
CO 7	Understand and identify potential threats to operating systems and the security features design to guard against them	4	2,3,9
CO 8	Specify objectives of modern operating systems and describe how operating systems have evolved over time.	5	1,2,7
CO 9	Describe the functions of a contemporary operating system	4	1,2,3

Course Code: 6A
Course Name: WEB INTERFACE DESIGN TECHNOLOGIES

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	To Understand the web architecture	1	1,2,3
CO 2	Gain knowledge about various components of a website	2	4,5,7
CO 3	Demonstrate skills regarding creation of a static website and an interface to dynamic website.	3	4,5,7
CO 4	Learn how to install wamp, bitnami local host servers	4	1,2,3
CO 5	Learn how to install word press and gain the knowledge of installing various plugins to use in their websites.	5	5,7,10

Course Code: 7A
Course Name: Web Applications Development using PHP & MYSQL

Upon completion of this course, the student will be able to:		PSOs	POs
CO 1	Understand PHP programs and Apply in built functions and create user defined functions in PHP programming	1,2	1,2,4
CO 2	Understand and create PHP scripts to handle HTML forms	3	2,3,4
CO 3	Develop dynamic and interactive web based applications using PHP and MYSQL	5	4,5,7
CO 4	how to use PHP with a MySQL database and can write database driven web pages.	4,5	1,2,4

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