



GOVT.DEGREE COLLEGE NARASANNAPETA

DEPARTMENT OF COMPUTER SCIENCE



Program outcomes

Course outcomes



GOVERNMENT DEGREE COLLEGE
NARASANNAPETA - SRIKAKULAM DIST- 532421
(Affiliated to Dr.B.R.Ambedkar University,Etcherla -Srikakulam Dist.)
Accredited with NAAC - "B" Grade



DEPARTMENT OF COMPTUER SCIENCE

Program outcomes

Student outcomes describe what students are expected to know and be able to do by the time of graduation. The Computer Science Department's Bachelor of Science program must enable students to attain, by the time of graduation:

- An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- An ability to identify, formulate, and develop solutions to computational challenges.
- An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
- An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.
- An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
- An ability to communicate and engage effectively with diverse stakeholders.
- An ability to analyze impacts of computing on individuals, organizations, and society.
- Recognition of the need for and ability to engage in continuing professional development.
- An ability to use appropriate techniques, skills, and tools necessary for computing practice.
- An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- An ability to apply design and development principles in the construction of software systems of varying complexity.



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S.No	Course Name	Course Outcome
1	Data Structures	CO1.Understand available Data Structures for data storage and processing.
		CO2.Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph
		CO3.Choose a suitable Data Structures for an application
		CO4.Develop ability to implement different Sorting and Search methods
		CO5.Understand data structures basic operations like insert, delete, search, update and traversal
2	Database Management Systems	CO1.Understand the fundamental concepts of DBMS with special emphasis on relational data model.
		CO2.Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database
		CO3.Model database using ER Diagrams and design database schemas based on the model.
		CO4.Create a small database using SQL.
		CO5.Store, Retrieve data in database.
3	Programming in C	CO1.Identify Computer Components
		CO2.Implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
		CO3.Design programs using decision structures, loops for problem solving
		CO4.Develop programs using arrays and other data structures
		CO5.Solve scientific problems using functions, pointers and dynamic memory allocation
		CO6.Design programs to create/update basic data files



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S.No	Course Name	Course Outcome
4	Object Oriented Programming Using Java	CO1.Understand how object-oriented concepts are incorporated into the Java programming language
		CO2.Develop problem-solving and programming skills using OOP concept
		CO3.Understand the benefits of a well-structured program
		CO4.Develop the ability to solve real-world problems through software development in high-level programming language like Java
		CO5.Develop efficient Java applets and applications using OOP concept
5	Operating Systems	CO1.Analyse the concepts of processes in operating system and illustration of the scheduling of processor for a given problem instance.
		CO2.Identify the dead lock situation and provide appropriate solution so that protection and security of the operating system is also maintained.
		CO3.Analyse memory management techniques, concepts of virtual memory and disk scheduling.
		CO4.Understand the implementation of file systems and directories along with the interfacing of IO devices with the operating system.



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S.No	Course Name	Course Outcome
6	Web Interface Designing Technologies	<p>Students after successful completion of the course will be able to:</p> <ol style="list-style-type: none">1. Understand and appreciate the web architecture and services.
		<ol style="list-style-type: none">2. Gain knowledge about various components of a website.3. Demonstrate skills regarding creation of a static website and an interface to dynamic website.4. Learn how to install word press and gain the knowledge of installing various plugins to use in their websites.
7	Web Applications Development using PHP & MYSQL	<p>Students after successful completion of the course will be able to:</p> <ol style="list-style-type: none">1. Write simple programs in PHP.2. Understand how to use regular expressions, handle exceptions, and validate data using PHP.3. Apply In-Built functions and Create User defined functions in PHP programming.4. Write PHP scripts to handle HTML forms.5. Write programs to create dynamic and interactive web based applications using PHP and MYSQL.6. Know how to use PHP with a MySQL database and can write database driven web pages.