K. V. R. Govt. College for Women (A), Kurnool

Department of Computer Science

Program Outcomes and Program Specific Outcomes

Programme	Combination	Programme Outcomes	Programme Specific outcomes
B.Sc.	**Maths Physics Computer science**	Possess a sound understanding of the theoretical foundation of various core subjects. Acquire analytical and logical thinking skills necessary to pursue higher Education. Get ability to design, implement and evaluate a computer based system, process, component or program to meet desired needs. Apply the knowledge of mathematics, Computer science to the solution of complex engineering problems.Promotes an in-depth exploration in specific field, current ways of thinking, new discoveries, and methodologies of the discipline. Gain employment at entry level positions based on program curriculum. After the completion of UG program the student gets eligibility to join PG programme, MCA, MBA Student will be eligible to write bank PO/Clerk examinations, Civil services and other group services examinations.	**Mathematics:** Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills **Physics:** Master a broad set of knowledge concerning the fundamentals in the basic areas of Physics **Computer Science:** 1.Mastery in the core areas Algorithms,Programming Languages,Data Structures, Databases,Software Engineering and Development 2.Apply problem-solving skills and the knowledge of computer science to solve real problems. 3.Understand how technological advances impact society and the social, legal, ethical and cultural ramifications of computer technology and their usage.

				Mathematics: Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills

S. No.	Code	Title of the Paper	CO	Course Outcomes
B.Sc.	Mathematics, Computers, Data Science	Expertise in the basic sciences provides the students with opportunities to go for Higher Education . Get ability to design, implement and evaluate a computer based system, process, component or program to meet desired needs. Apply the knowledge of mathematics, Computer science to the solution of complex engineering problems. Create, select, and apply appropriate techniques, resources, and modern IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations. .		**Mathematics:** Develop proficiency in high level mathematical methods, Acquire analytical and logical thinking skills **Computer Science:** 1.Mastery in the core areas Algorithms,Programming Languages,Data Structures, Databases, Software Engineering and Development2.Apply problem-solving skills and the knowledge of computer science to solve real problems.3.Understand how technological advances impact society and the social, legal, ethical and cultural ramifications of computer technology and their usage. **Data Science:** 1.Interpret data, extract meaningful information, and assess findings. 2.Choose and apply tools and methodologies to solve data science tasks.

COURSE OUTCOMES

S. No.	Code	Title of the Paper	CO	Course Outcomes
1	1211	Computer Fundamentals and Photoshop	C01	Understand the computer, its characteristic, limitations and its usage.
			C02	Analyze number system.
			C03	Work with different input and output devices.
			C04	Image edit, modify, background and saving using Photoshop.
			C05	Work with tool box, layers and filters.
2	2211	Programming in C	C01	Develop programs using the basic elements like control statements, Arrays and Strings. Solve the memory access problems by using pointers.
			C02	Understand dynamic memory allocation using pointers which is essential for utilizing memory.
			C03	Understand code reusability with the help of user defined functions and pointers.
			C04	Develop programs using enumerated data types, function pointers and nested structures.
			C05	Understanding the concept of files and implement the basics file handling mechanisms.

3	2212	Introduction To Data Science With 'R'	C01	Develop programming abilities in R.
			C02	Demonstrate proficiency in statistical analysis of data.
			C03	Develop the ability to build and assess data based models.
			C04	Execute statistical analysis with professional statistical software.
			C05	Demonstrate skill in data management.
4	3211	Object oriented programming using java	C01	To implement Object oriented programming paradigms using Java language.
			C02	To implement multiple classes using Inheritance and how to access arrays and Strings in Java.
			C03	Understand thread concept and use different methods to create threads.
			C04	Understand exception handling concept and to create user defined exceptions.
			C05	Analyze platform independent application runtime environment and choose appropriate runtime environment to create GUI and Web applications using Java language.
5	2531	Office Automation Tools	C01	Office automation refers to the varied computer machinery and software used to digitally create, collect, store, manipulate, and relay office information needed for accomplishing basic tasks.
			C02	Office automation can get many tasks accomplished faster.
			C03	It eliminates the need for a large staff. Less storage is required to store data.
			C04	Multiple people can update data simultaneously in the event of changes in schedule.
6	5211	Data Base Management Systems (B. Sc)	C01	Understand the fundamental concepts of a database system.
			C02	Analyze database requirements and determine the entities involved in the system and their relationship to one another.
			C03	Develop the logical design of the database using data modeling concepts such as entity-relationship diagrams.
			C04	Create relational tables from entity-relationship diagrams.
			C05	Manipulate a database using SQL and develop programming skills in SQL and PL/SQL.
7	5531	Data Base Management Systems(BA)	C01	Understand the fundamental concepts of a database system.
			C02	Analyze database requirements and determine the entities involved in the system and their relationship to one another.
			C03	Develop the logical design of the database using data modeling concepts such as entity-relationship diagrams.
			C04	Create relational tables from entity-relationship diagrams.
			C05	Manipulate a database using SQL and develop programming skills in SQL and PL/SQL.
8	5212	Software Engineering	C01	Basic knowledge, understand, analyse and design of complex systems.
			C02	Ability to apply software engineering principles and techniques.
			C03	To produce efficient, reliable, robust and cost-effective software solutions.
			C04	Ability to understand and meet ethical standards and legal responsibilities.

9	6211	Web Technologies	C01	Use fundamental skills to maintain web server services required to host a website.
			C02	Select and apply mark-up languages for processing, identifying, and presenting of information in web pages.
			C03	Use scripting languages and web services to transfer data and add interactive components to web pages.
			C04	Incorporate best practices in navigation, usability and written content to design websites that give users easy access to the information they seek.
10	6212	Foundation of Data Science	C01	Develop programming abilities in R.
			C02	Demonstrate proficiency in statistical analysis of data.
			C03	Develop the ability to build and assess data based models.
			C04	Execute statistical analysis with professional statistical software.
			C05	Demonstrate skill in data management.
11	6213	Big Data	C01	Big data helps an organization understand its customers better, and helps it narrow down the target audience, thus improving their marketing campaign.
			C02	Hadoop provides massive storage for any kind of data, enormous processing power and the ability to handle concurrent tasks or jobs.
			C03	It provides high throughput access to application data and Hadoop Map Reduce provides YARN based parallel processing of large data sets.
			C04	Map Reduce or YARN, are used for scheduling and processing. Hadoop Map Reduce executes a sequence of jobs and used for data warehousing.
12	6214	Data Analytics	C01	Help mitigate risks from fraud for clients and organizations and also to make better decisions.
			C02	Understand probability distribution, which provides the probabilities of occurrence of different possible outcomes in an experiment.
			C03	It is the practice of extracting information from existing data sets in order to determine patterns and predict future outcomes and trends.
			C04	This technology helps to manage the time with continuous innovations taking place in all aspects of lives.
13	6531	PHP & MY SQL	C01	Working with MySQL databases and use PHP to Create, modify, and delete MySQL tables, manipulate MySQL records, retrieve database records.
			C02	Use arrays over objects and array handling functions
			C03	Use Hidden Fields to save state, Redirecting the user, Sending Mails, Working with File Uploads.
			C04	Cookies enable to store the session information on the client side.
			C05	Understanding the Image-Creation Process, Necessary Modifications to PHP, Drawing a New Image, Getting Fancy with Pie Charts, Modifying Existing Images.