DEPARTMENT OF B.C.A. (SCIENCE)

M.Sc.(C.A.)

Program Outcomes:

After successful completion of **M.Sc.(C.A.)** Programme students will be able to:

PO1: DEMONSTRATE UNDERSTANDING OF FUNDAMENTAL AND ADVANCE CONCEPTS IN EMERGING AREAS.

Apply the knowledge of computer science fundamentals, and a specialization to the solution of complex science problems in emerging areas.

PO2: DESIGN AND DEVELOP INNOVATIVE COMPUTER APPLICATIONS.

Design solutions for complex computer science applications and design system components or processes or programs that meet the specified needs with appropriate consideration for public health and safety and cultural, societal, and environmental considerations. i.e. to Discuss /design software development fundamentals, including programming, data structures, algorithms and complexity for the useful application.

PO3: ANALYZE EXISTING RESEARCH REPORTED IN THE LITERATURE.

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. i.e. Illustrate the concepts of systems fundamentals, including architectures and organization, operating systems.

PO4: PROPOSE ALTERNATE SOLUTIONS BY UNDERTAKING RESEARCH WORK.

To create concepts of system fundamentals ,including architectures and organization ,operating systems. Analyze the research papers, literature review.

PO5: CREATE EFFICIENT, RELIABLE, READABLE AND MAINTAINABLE CODE.

Understand the impact of the professional IT solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO6: DEMONSTRATE A DEEPER UNDERSTANDING OF THE CHOSEN DOMAIN.

Demonstrate the different live examples , videos for getting deeper knowledge about the selected domain.

PO7: SELECT APPROPRIATE METHOD TO SOLVE THE GIVEN PROBLEM.

Apply basic understanding of operative systems and working knowledge of problem.

PO8: EXPLAIN COMPLEX TECHNICAL CONCEPTS CLEARLY AND EFFECTIVELY, BOTH IN WRITTEN AND ORAL FORMS

Take more and more practice of the complex concepts in written and oral aspects.

PO9: DEMONSTRATE ABILITY TO COLLABORATE EFFECTIVELY WITH TEAM MEMBERS, UNDERSTAND DIFFERENTPERSPECTIVES, AND CONTRIBUTE PRODUCTIVELY TO BECOME SUCCESSFUL PROFESSIONAL

Develop hard skills and soft skills through various tools, case studies. Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share the views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups. Understand the roles and responsibilities of the professional.

PO10: DEMONSTRATE ABILITY TO WORK WITH INTEGRITY AND A SENSE OF SOCIAL RESPONSIBILITY.

Ability to acquire knowledge and skills, including learning how to learn that are necessary for participating in learning activities throughout life. Develop technical knowledge for immediate employment and for life-long learning in advanced areas of computer science and related fields.

PO11: DEMONSTRATE SELF AND LIFE-LONG LEARNING SKILLS

Identify, analyze, formulate, Design and develop the real-world requirements by critical thinking for complex problems in IT enabled services.

PO12: SOLVE COMPUTATIONAL PROBLEMS INNOVATIVELY.

Computational problem can solved by innovatively using different methods.

PO13: APPLY KNOWLEDGE GAINED AND CRITICAL THINKING TO DEVELOP REAL-WORLD APPLICATIONS.

You can practice critical thinking in many areas of your life, such as: Analyzing news articles, Making decisions at work, Planning personal projects, and Deciding how you use your time.