



# Jamal Mohamed College (Autonomous) Trichy

## Department of Computer Science

### B.Sc. Computer Science

#### Students will be able to

- ✚ Discuss the fundamental theories, concepts, Algorithms, Data Structures, Programming Languages, Compilers and Computer hardware and architecture and their applications in computer science.
- ✚ Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline and evaluate the impact of technological advances in the society and the social, legal, ethical and cultural ramifications of computer technology.
- ✚ Appraise computation and programming, the theoretical basis of the mathematics and symbolic concepts that underlie computing and communicate in a collaborative environment, present ideas, and document work at all stages of software development.
- ✚ Analyze problems and design algorithms, execution of programs written in C++ language, identify the components of a computer and the organization of those components, map statements and constructs in a high-level language into a sequence of machine instructions to solve real life problems.
- ✚ Use current techniques, skills, and tools necessary for computing practice for acquiring job in the field of computer science and its allied areas, engaging in continuous professional development through lifelong learning.



# Jamal Mohamed College (Autonomous) Trichy

## M.Sc.Computer Science

### Students will be able to

- ✚ Exhibit proficiency in basic computer applications, theoretical dimensions and its application in various fields.
- ✚ Analyze the local and global impact of computing on individuals, organizations and society, blending analytical, logical and technical aspects and become lifelong learners and contributors to society.
- ✚ Apply analytical and computational approaches on changing societal and technological challenges to meet desired needs within realistic constraints with positive attitude and develop computer applications using modern tools and techniques.
- ✚ Discover employment possibilities through self employed entrepreneurs, jobs in computer and related companies or by qualifying competitive examinations.
- ✚ Transcribe concepts and results to a technical audience in the form of a technical report and/or an oral presentation on recognizing the professional, ethical, legal, security and social issues and responsibilities

## M.Phil Computer Science

### Students will be able to

- ✚ Express the social, cultural and ethical impact of the latest computer technologies on the society and the impact of research in environmental contexts that promotes societal developments.
- ✚ Apply and analyze research-based knowledge and research methods to provide valid conclusions and decisions and prepare a scientific report.
- ✚ Apply the modern concepts of computer science in research by utilizing the latest and advanced tools of computation concerning the moral, ethical and social values.
- ✚ Appraise the theoretical knowledge of teaching learning skills inside the classroom and personal development.
- ✚ Select employment provisions in the relevant field either through research or competitive exams and engage in independent and lifelong learning in the broadest context of technological change.