## Overview

The Master of Computer Applications Department was started in 1999 and it strives to offer quality education in the field of Information Technology. The MCA course is affiliated to University of Madras and approved by All India Council for Technical Education **(AICTE) Approval No: F. No: TN-58/MCP-CS/98 dated September 23, 1998** and the course got its Autonomy status in the year 2006. The dedicated services rendered by the department to the student community for more than two decades have nurtured numerous young and perspective women IT professionals. The Master of Computer Applications (MCA) programme is a two-year course from the academic year 2020-21, as per the latest guidelines issued by the All India Council of Technical Education (AICTE) and UGC. The Department is having ambitious objective of developing professional expertise and skilled women power in Information Technology. In consistent with this objective, high priorities have been placed on effective teaching and learning.

Over the period of time, department has progressed at a rapid pace with its infrastructural facilities, advanced syllabi and proficient staff who are a part of various development activities. Department is enriched with high-end systems in computer labs with the able support of Campus WiFi, high bandwidth 1:1 dedicated Internet facility, ICT (audio-visual) room and centralized library. Department offers an excellent academic environment to boost complete personality development to increase the capabilities and confidence of both the teachers and students to take-up the challenges of the dynamic socio-technical world. In this era of technological explosion, the department is dedicated to maintain a high standard of excellence through quality, technology and innovation.

## Vision

To bring about a transformation in every student's life from what she is today into a person who will ever persevere to succeed in both life and profession.

## Mission

To provide the young women with all necessary skills and knowledge to face the world with courage and confidence that will help them to reach great heights and be cherished as independent individual in the society.

# PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

## PEO 1: Professional Upgradation

Graduates will have successful academic career growth to excel in the IT profession by offering concrete technical foundations in the field of computer applications.

## PEO 2: Research & Innovation

Graduates will have the cognitive ability to choose the research domain to pursue lifelong learning.

## PEO 3: Managerial Skills

Graduate will have employment in public and private sectors and resolve economic, social and environmental needs.

## PEO 4: Communication Efficacy:

To prepare the students to communicate, coordinate and function in an efficient manner as an individual and as a team member.

# PROGRAMME OUTCOMES (PO)

**PO1**: **Computational Knowledge:** Acquire in-depth insight into the recent technologies and integrate with existing knowledge thereby stimulating thrust to think 'out of the box' in wider and global perspective.

**PO2**: **Problem Analysis:** Analyze and design Information and Communication Technology applications to build solutions for real-time problems and necessities.

**PO3**: **Conduct Investigation of Complex problems:** Find the probability of optimal utilization of the developed product and the feasible study over the size and scope of the future demand.

**PO4**: **Design and Development:** Design and develop a solution for recent research trends and real-time problems.

**PO5**: **Modern Tools Usage:** Create/Select the appropriate recent research trend tools to demonstrate or to simulate the technical test beds for the better clarity to reach out the further move towards academic excellence.

**PO6: Communication:** Communicate effectively on ICT activities with the academic community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive instructions with at most clarity.

**PO7: Individual and Teamwork:** Cultivate and impart the skills to work as an individual and as a team in proposing solutions to cater the business and research requirements.

**PO8:Life-long learning:** Incline for independent life-long learning.

**PO9: Creativity and Entrepreneurship:** Search for opportunities in the field of Entrepreneurship to create and add value for the progress of an individual and society.

**PO10: Social Responsibility:** Knowing the risks and threats involved in the cyber access and deriving the possible precautionary and preventing measures.

## PROGRAMME SPECIFIC OUTCOMES (PSO)

After completing the course, the post graduate students will be able to,

**PSO1**: Accomplish both technical and non-technical skills in developing algorithms and implement them in high level languages to deploy and promote them for innovative software solutions

**PSO2**: Excel in managerial and leadership skills and recognize the need of lifelong learning to adapt themselves with ease to new technologies

**PSO3**: Analyze real life problems, design computing solutions appropriately that are technically sound, economically feasible and socially acceptable

**PSO4**: Develop professional ethics in utilizing modern computer technologies, environments, and platforms in creating innovative career paths towards the technological growth

**PSO5:** Impart strong technical foundation to the students in pursuing research thereby contributing technical up gradations to the society.

## ADMISSION

**Categories of Seats**

**Eligibility**

Eligibility Criterion Candidates, who have passed the under-mentioned degree examinations under 10 + 2 + 3 or 11+1+3 or 11+2+2 pattern or under the Open University System, shall be eligible for admission to the M.C.A Degree Course.

(a) B.C.A / B.E.S / B.Sc. in Computer Science / Mathematics / Physics / Statistics / Applied Sciences.

(b) B.Com / Bachelor of Bank Management / B.B.A / B.L.M / B.A Corporate Secretary-ship/ B.A Economics / any other Bachelor's Degree in any discipline with Business Mathematics and Statistics or Mathematics / Statistics in Main / Allied level.

(c) B. Sc Chemistry with Mathematics and Physics as allied subjects

(d) B.E / B. Tech / M.B.A

(e) A Bachelor's Degree in any discipline with Mathematics as one of the subjects at the Higher Secondary level (i.e., in +2 level of the 10+2 pattern).

## Admission Process

TANCET Examination (Tamil Nadu Common Entrance Test conducted by Anna University)

## MOU SIGNED

| S.No | Name of the Companies |
|------|----------------------|
| 1 | CONTUS- Contus Support Interactive Private Limited. |
| 2 | Infysec - Infysec-Cyber Security & Ethical Hacking Training Academy. |
| 3 | NASSCOM |

**Academic Year 2016-2017**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 27 & 28.02.2017 | IoT with Raspberry Pi |
| 2 | 16.03.2017 | Ethical Hacking |
| 3 | 28-06-2017 | Mobile App Development |
| 4 | 29-06-2017 | Big Data Analysis and Hadoop |

**Academic Year 2017-2018**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 09-08-2017 | Big Data and Hadoop |
| 2 | 26 & 27.04.2018 | R Programming |

**Academic Year 2018-2019**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 14.09.2018 | Python using Opencv |
| 2 | 15.09.2018 | Professional Programming Skill Development using VB.Net |
| 3 | 12.10.2018 | Recent Technologies |
| 4 | 01.12.2018 | Python |
| 5 | 02.02.2019 | Angular JS |
| 6 | 26 & 27.03.2019 | Start Ups and Technology-IOT, Industry Expectation, Block chain |
| 7 | 28 & 29.03.2019 | Introduction to Cloud Computing |

**Academic Year 2019-2020**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 28.01.2020 | Review of Artificial Intelligence and Machine Language |
| 2 | 28.01.2020 | Review of Artificial Intelligence and Machine Language |
| 3 | 12.02.2020 | "R" Programming (IIBP 2020) |
| 4 | 13.02.2020 | Machine Learning using Python (IIBP 2020) |
| 5 | 14.02.2020 | Technical Writing & e-Publishing ethics (IIBP 2020) |
| 6 | 14.02.2020 | Intellectual Property Rights (IIBP 2020) |
| 7 | 18.02.2020 | Ethical Hacking |
| 8 | 18 to 20.05.2020 | Block chain programming Webinar (Google Meet) |
| 9 | 26.06.2020 | Tech and Non Tech Skillset Webinar (Google Meet) |
| 10 | 04.07.2020 | Big Data Driven Solutions to Combat Webinar (Google Meet) |
| 11 | 08.07.2020 | Entrepreneurship as Career Webinar (Google Meet) |

**Academic Year 2021-2022**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 09.08.2021 | Happiness, Mindfulness and Soulfulness-A Holistic Approach Webinar (Google Meet) |
| 2 | 10.08.2021 | Critical Thinking and Design Thinking Webinar (Google Meet) |
| 3 | 11.08.2021 | Building the Skills-Impassioned Need for Life Webinar (Google Meet) |
| 4 | 18.10.2021 | "Real world Applications of Cloud Computing" Webinar (Google Meet) |

**Academic Year 2022-2023**

| S.No | Date | Name of the Events |
|------|------|--------------------|
| 1 | 10.08.2022 | International Year of Millet-IYOM'23 |
| 2 | 16.08.2022 | Entrepreneurial Skills for Women Challenges & Opportunities<br>. |
| 3 | 10.10.2022 | How to Prepare an Interview |
| 4 | 27.10.2022 | Cyber Awareness Program |
| 5 | 04.02.2023 | Cyber Opportunities in Cyber Security |
| 6 | 09.02.2023 | Let's Practice Latex |