MASTERS IN
COMPUTER APPLICATION (MCA)

2 YEARS (4 SEMESTERS)

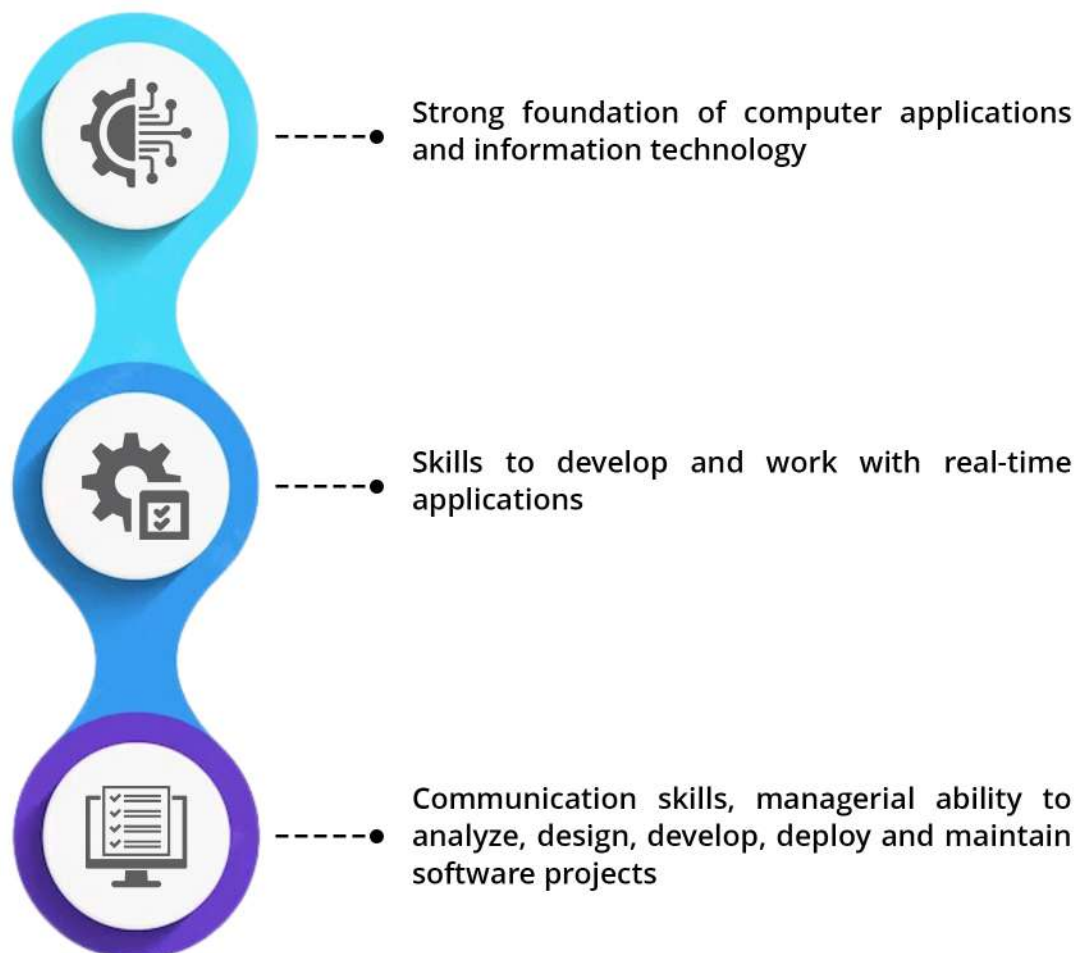# ABOUT **MASTERS IN COMPUTER APPLICATION (MCA)**

The Masters in Computer Application (MCA) is a specialized programme designed to provide students with in-depth knowledge and skills in various aspects of computer science and applications. This course combines theoretical foundations with practical training, equipping students to excel in software development, database management, networking, and systems analysis. Through a comprehensive curriculum, MCA students gain expertise in programming languages, algorithms, data structures, and software engineering principles. Students also learn about emerging technologies such as artificial intelligence, cloud computing, NLP, image processing and others as per their individual interest. With a strong emphasis on hands-on projects, the MCA programme prepares graduates for rewarding careers in the ever-evolving field of computer applications.

LEARNING **OUTCOME**

The online MCA programme will equip students with the necessary theoretical knowledge and practical skills in the world of computing that will enable them to understand the design of complex computer applications.

ON THE SUCCESSFUL COMPLETION OF THIS PROGRAMME, THE STUDENT WILL BE EXPECTED TO POSSESS THE FOLLOWING:

Strong foundation of computer applications and information technology

Skills to develop and work with real-time applications

Communication skills, managerial ability to analyze, design, develop, deploy and maintain software projects

PROGRAMME HIGHLIGHTS

RECOGNIZED MCA FROM A TOP RANKED UNIVERSITY

Earn a credible and recognized MCA degree from India's top ranked University. SASTRA is ranked 24 amongst Universities as per NIRF Rankings 2022
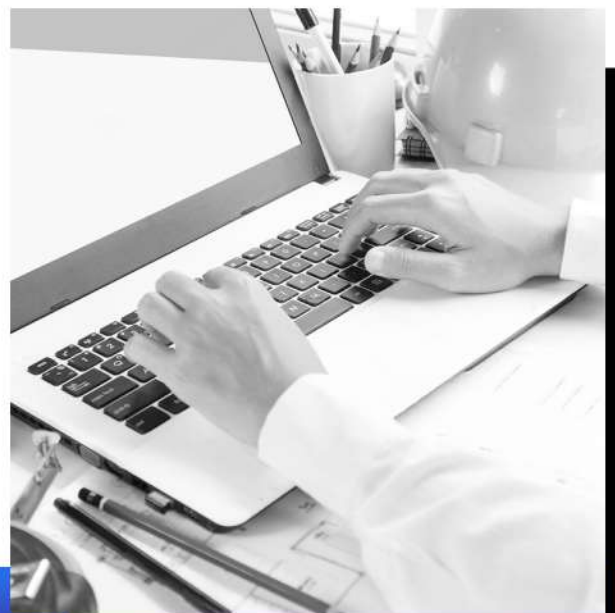
PARTICIPATE IN JOB FAIRS ORGANIZED BY SASTRA

Students of the Online MCA programme, are welcome to participate in the Job Fairs and other placement events organized by SASTRA on campus

EXPOSURE TO EMERGING TECHNOLOGIES

Between the mandatory courses and a wide range of electives in varied technical domains, students have the opportunity to pursue knowledge and expertise in multiple areas of emerging technologies that is vital in the present day business environment

IMMERSIVE LEARNING THROUGH PROJECT WORK

Students will have the opportunity to identify a real time problem statement at their respective workplace and work through a project in a dynamic learning environment to arrive at a viable and optimal solution

ALL ROUND PERSONALITY DEVELOPMENT

In addition to pursuing courses that are focussed on building technical competencies, students also get the opportunity to do courses that will help with professional communication and individual personality development

CURRICULUM

SEMESTER 1 – (21 CREDITS)

COURSE CODE	COURSE NAME	CREDITS
CAP401R01	Data Structures & Algorithms	3
MAT427	Numerical & Statistical Analysis	3
CAP403R01	Computer Organization & Architecture	3
CAP408	Operating Systems	3
ENG213	Professional Communication (Semi Theory and Semi Practice)	3
CAP405	Data Structures & Algorithms Laboratory	2
CAP440	Numerical & Statistical Methods Laboratory	2
CAP412	Operating Systems Laboratory	2
TNP101	Soft Skills – 1	0

SEMESTER 2 – (21 CREDITS)

COURSE CODE	COURSE NAME	CREDITS
CAP410	Database Management Systems	3
CAP524	Software Design & Testing	3
CAP441	Object Oriented Analysis & Design	3
MAT444	Mathematical Foundation for Computer Science	3
CAPXXX	Elective I	3
CAP502R01	Advanced Java Programming (Semi Theory and Semi Practical)	2
CAP411	Database Management Systems Laboratory	2
CAP525	Software Design & Testing Laboratory	2
TNP102	Soft Skills – 2	0

SEMESTER 3 – (21 CREDITS)

COURSE CODE	COURSE NAME	CREDITS
CAP527	Algorithm Design & Analysis	3
CAP442	Web Technology (Semi Theory and Semi Practical)	3
CAP512R01	Big Data Analytics	3
CAPXXX	Elective II	3
CAPXXX	Elective III	3
CAP528	Algorithm Design Laboratory	2
CAP510	Information System Development Laboratory	2
CAP523R01	Big Data Analytics Laboratory	2

SEMESTER 4 – (17 CREDITS)

COURSE CODE	COURSE NAME	CREDITS
CAP533	Theory and Practices of Artificial Intelligence (Semi Theory and Semi Practical)	3
CAP534	Network Principles & Protocols	3
CAPXXX	Elective IV (Students will be allowed to complete this course through SWAYAM)	3
CAP535	Machine Learning Techniques & Applications	3
CAP601	Project Work & Viva Voce	5

CREDITS DISTRIBUTION

SEMESTER	I	II	III	IV	TOTAL
COURSES	9	9	8	5	31
CREDITS	21	21	21	17	80

SAMPLE DEGREE

SASTRA
ENGINEERING · MANAGEMENT · LAW · SCIENCES · HUMANITIES · EDUCATION
DEEMED TO BE UNIVERSITY
(U/S 3 of the UGC Act, 1956)

Shanmugha Arts, Science, Technology & Research Academy

School of Computing

Upon the recommendation of the Faculty and by the
Authority of the Board of Management
acting under the powers vested by the Government of India,
the University confers on

Student Name

the degree of

Master of Computer Applications

and has placed her in First Class with Distinction
in the Examination held in July 2022.

In witness whereof, we have hereunto affixed our signatures and the
Seal of the University, this day, the Eighteenth of September, 2022
at the University Campus, Thanjavur, India.

Dean   Registrar   Vice-Chancellor

Sl. No. P06   Reg. No. 1234567890

SPECIMEN COPY

PROGRAMME **DETAILS**

DURATION

- 2 Years (Four Semesters)

ELIGIBILITY

- Graduate/Bachelors degree (10+2+3 or 10+2+4) or equivalent in Computer Science / Computer Applications / Mathematics / other relevant stream from a recognized university

MEDIUM OF INSTRUCTION

- English

SALIENT FEATURES

- Strong brand image of SASTRA in the corporate sector
- Semester pattern
- Interactive learning content and Self Learning Materials (SLM)
- Personal Contact classes
- Highly qualified and experienced faculty
- Affordable fee structure with loan facility at attractive rates
- Internal Assessment – 30 marks + End semester Exam - 70 marks

PROGRAMME **FEES**

FOR STUDENTS IN INDIA	SEMESTER FEE	YEARLY FEE	TOTAL PROGRAMME FEE (LUMPSUM FOR 2 YEARS)
PROGRAMME FEE	**INR 50,000**	**INR 1,00,000**	**INR 2,00,000**
LIMITED TIME DISCOUNTED FEE	**INR 50,000**	**INR 85,000**	**INR 1,40,000**

The above fee is applicable for admissions into the January 2025 batch.

FEE INCLUDES

- Interactive learning content and Self Learning Materials (SLM)
- Live interactive sessions with Sastra faculty and contact classes as specified
- Semester exam fees for all 4 semesters
- Convocation Fee

FEE DOES NOT INCLUDE

- Re-exam fees for any subsequent attempts
- Any other administrative charges that are not covered above

PAYMENT **OPTIONS**

OPTION 1	Make a down payment of Rs.20000 and avail loan/financial assistance for the balance fee.
OPTION 2	Pay Semester fee on or before the specified last date.
OPTION 3	Pay the annual fee upfront on or before the specified last date.
OPTION 4	Pay the full programme fee on or before the specified last date.

For Admission Related Inquiries

Visit Us At: sastraonline.com/mca

Email: admissions@sastraonline.com

Call: +91 7010149377