



# SASTRA

ENGINEERING · MANAGEMENT · LAW · SCIENCES · HUMANITIES · EDUCATION

DEEMED TO BE UNIVERSITY  
(U/S 3 OF THE UGC ACT, 1956)

THINK MERIT | THINK TRANSPARENCY | THINK SASTRA

# Masters in Computer Application

Mode: Online  
Duration: 2 Years



## Ranking & Accreditation

NAAC  
GRADE **A++**



# About The Programme

*Step into the world of innovation with SASTRA's Online MCA Programme! Whether you're passionate about coding, app development, or solving real-world tech challenges, this programme gives you the tools to thrive. With hands-on learning, expert faculty, and a future-ready curriculum, you're all set to launch or boost your career in the ever-evolving tech industry — right from wherever you are!*

The Master of Computer Application (MCA) is a specialized online MCA programme designed to provide students with in-depth knowledge and skills in various aspects of computer science and applications. It is ideal for those looking for the best online MCA university or seeking an online MCA course in Chennai.

This MCA online degree programme combines theoretical foundations with practical training, equipping students to excel in software development, database management, networking, and systems analysis. Through a comprehensive online MCA curriculum, 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 more. With a strong emphasis on hands-on projects, the MCA online programme prepares graduates for rewarding careers in IT and software industries.



# Programme Highlights

- **Recognized MCA from a Top-Ranked University**

Earn a credible online MCA degree from SASTRA, ranked #28 among universities in NIRF 2024.

- **Curriculum Aligned with Industry Demands**

Specialize in high-demand areas like Artificial Intelligence, Data Science, and Cybersecurity with a wide range of modern electives.

- **Hands-on, Project-Based Learning**

Work on real-world projects and solve practical business challenges using your workplace as a learning lab.

- **Holistic Skill Development**

Strengthen your technical foundation while enhancing leadership, communication, and analytical thinking.

- **Placement Support & Job Fairs**

Get access to SASTRA's placement drives, career support, and industry networking opportunities.



# MCA – Scheme of study

## Semester 1 (20 credits)

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
MATOL307R01	Statistical Methods	4	0	0	4
CSEOL103	Data Structures (Semi Theory & Semi Practical)	4	0	0	4
CSEOL101	Problem Solving & Programming in C	3	0	2	4
INTOL205	Database Management Systems	3	0	2	4
CSEOL302	Computer Networks (Semi Theory & Semi Practical)	4	0	0	4
TNPOL101R01	Soft skills-I	0	0	2	0
	<b>Total</b>	<b>18</b>	<b>0</b>	<b>6</b>	<b>20</b>

## Semester 2 (20 credits)

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
CSEOL305	Design & Analysis of Algorithms (Semi Theory & Semi Practical)	3	0	2	4
CSEOL338	Operating System Concepts & Principles (Semi Theory & Semi Practical)	3	0	2	4
CSEOL208	Java Programming	3	0	2	4
XXXXXX	Stream Course-Paper I	4	0	0	4
XXXXXX	Stream Course-Paper II	4	0	0	4
TNPOL102R01	Soft skills-II	0	0	2	0
	<b>Total</b>	<b>17</b>	<b>0</b>	<b>8</b>	<b>20</b>



## Semester 3 (20 credits)

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
CSEOL215	Software Engineering(Semi Theory & Semi Practical)	3	0	2	4
CSEOL304	Python Programming with Web Frameworks	3	0	2	4
CAPOL442R01	Web Technology (Semi Theory & Semi Practical)	3	0	2	4
XXXXXX	Stream Course-Paper III	4	0	0	4
XXXXXX	Stream Course-Paper IV	4	0	0	4
	<b>Total</b>	<b>17</b>	<b>0</b>	<b>6</b>	<b>20</b>

## Semester 4 (20 credits)

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
XXXXXX	Elective-I	4	0	0	4
XXXXXX	Elective-II	4	0	0	4
CSEOL400	Project & Viva voce	0	0	24	12
	<b>Total</b>	<b>8</b>	<b>0</b>	<b>24</b>	<b>20</b>

## List of Electives

Elective-I	Elective-II
1. CAPOL432R01 Digital Image Processing	1. CAPOL513R01 XML Applications
2. CAPOL530R01 Natural Language Processing	2. CAPOL414R02 Mobile Computing
3. CAPOL438R01 Internet of Things	3. CAPOL509R02 Cloud Computing
4. CAPOL518R01 E-Commerce	4. CAPOL537R01 Information Technology & Infrastructure Management



One of Three streams should be chosen by the student

(Courses are offered in the same order given)

Stream I : Full Stack Development

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
	Low Code Programming	4	0	0	4
	Software Design & Testing	4	0	0	4
	Design Thinking	4	0	0	4
	Full Stack Web Application Development	4	0	0	4

Stream II : Artificial Intelligence & Data Science

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
CSEOL324	Fundamentals of AI & Data science	4	0	0	4
INTOL405	Machine Learning Techniques	4	0	0	4
CSEOL326	Predictive Analytics & Data Visualization	4	0	0	4
CSEOL334	Data Analytics for Health Care Applications	4	0	0	4

Stream III : Cyber Security

Course Code	Course Title	Periods of Instruction			Credits
		L	T	P	
CSEOL313	Cryptography & Network Security	4	0	0	4
INTOL320	Cyber Security & Ethical Hacking	4	0	0	4
INTOL420	Machine Learning for Cyber Security	4	0	0	4
INTOL439	Enterprise Block Chain Framework	4	0	0	4



# Online Learning Methodology



## E-Tutorial

- A pre-recorded video of an expert delivering a lesson or presentation on a particular topic.
- Videos will be uploaded on a weekly basis for 12 weeks.
- Videos will be available till semester completes.
- Any time access across devices.

## E-Content

- Asynchronous Mentoring.
- E-books, Lecture Notes, PPT and Open-Source Materials.
- The contents will be a mix of all the above available for the students to use comprehensively.
- All materials will be made available from day 1 for the entire semester students can download.
- It can be accessed any time across devices.

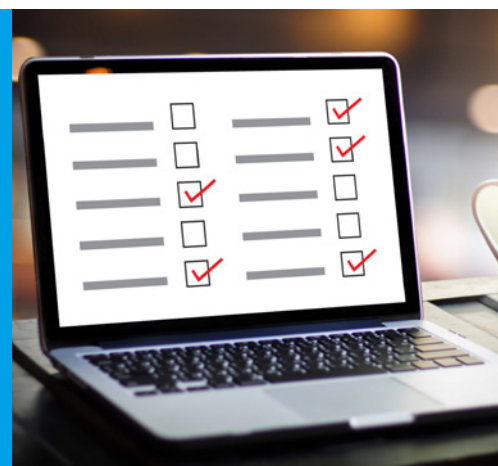


## Webinar

- Synchronous Teaching & Learning.
- Students must go through / study the previous three weeks content before sitting for webinars.
- 2 hour duration of each webinar – Every alternate week of the Programme. (2, 4, 6, 8,10,12th weeks).
- This session will be doubt clearing sessions only of previous weeks content.

## Assessment

- Each Assessments will be MCQs / Descriptive patterns.
- Totally 6 Assessments starting from 3rd week of the Programme (3,5,7,9,11,13 weeks).
- All courses will have 6 Assessments out of which best of 5 will be taken into consideration and it is compulsory.



# Learning Outcome

## Computer Applications graduates will be able to:

- PO1. Employ fundamental knowledge in Mathematics and Computer Science to provide solutions to different real-world problems.
- PO2. Analyze complex real-world problems and design computationally efficient optimal algorithms, meeting the requirement specifications.
- PO3. Build intelligent and efficient information systems, through requirement analysis, problem formulation, design, implementation, testing and documentation.
- PO4. Apply methods to design user interfaces and develop applications for mobile devices to make cutting edge facilities available for under privileged and differently abled people.
- PO5. Employ advanced software tools and technologies to extract, classify, evaluate and interpret huge data, to develop innovative solutions for business applications.
- PO6. Demonstrate knowledge and understanding of the project management principles, and professional codes while working in teams for developing software systems.
- PO7. Recognize the need for continuous learning to formulate problems from real world and to provide feasible solutions by employing latest research innovations and technological changes.

## Programme Specific Outcome for MCA

Upon completion of the Master of Computer Applications programme, the graduates will be able to:

- PS01. Solve real-time applications using different computing strategies.
- PS02. Create artificially intelligent systems for multidisciplinary applications using data analytic techniques and advanced machine learning to enhance the quality of human life.

## Eligibility

Graduate/bachelor's degree (10+2+3 or 10+2+4) or equivalent in any discipline from a recognized university.





## Salient Features

- The 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 the July 2025 batch admissions

Limited time only! Connect with our admission experts today to secure your Early Bird Discount!

### 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.15000 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.

# Get an MCA Degree from Sastra

SASTRA University will award a Course Completion Certificate to those who:

- Successfully complete all assessment components.
- Meet the specified attendance criteria.



# Job Opportunities

- Software Developer
- Data Scientist
- Cloud Architect
- Cybersecurity Specialist
- Business Analyst
- Full-Stack Developer
- Game Developer
- Artificial Intelligence (AI) Engineer
- Blockchain Developer
- IT Project Manager
- Database Administrator
- UX/UI Designer
- DevOps Engineer
- Network Engineer

## Our Alumni Work at:



# Hear from our Alumni

## ● S. Ram Prasanna

- Overall, the course was good, and the lecturers and guides were very helpful. I hope to utilize the learning gained from this programme fully.

## ● Rajendran P

- It was a great learning experience. Thank you for providing this opportunity, and special thanks to all the professors and coordinators.

## ● Ibrahim Garba

- I, Ibrahim Garba from Nigeria, really enjoyed how SASTRA UNIVERSITY manages academic activities. The lecturers and administrative staff do their best to support students, especially when issues arise.

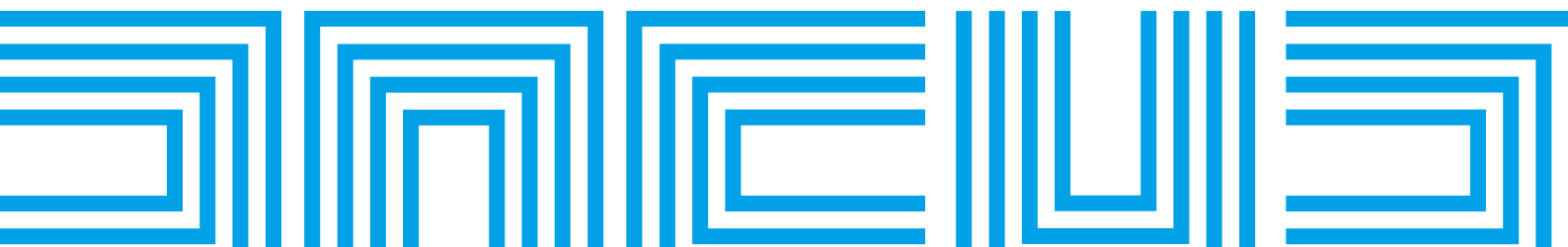
I will wholeheartedly recommend SASTRA UNIVERSITY to my friends and relatives for quality education. I am grateful to the Government of India and, once again, to SASTRA UNIVERSITY for their tireless efforts.

## ● Sowmiya T

- The online lectures are better compared to other institutions. They continuously update their software, ensuring an improved learning experience.

## ● Hareesh A

- This programme is excellent for working professionals who cannot spare time for a postgraduate degree.





# About Sastra University

With a humble beginning in the year 1984, SASTRA's progress in the last 36 years is a testimony to its commitment to building a University as envisaged in its guiding model. Today, SASTRA is one of India's premier institutions offering undergraduate, postgraduate & doctoral programmes in Engineering, Management, Law, Sciences, Humanities and Education. It was conferred Deemed-to-be-University status in 2001 by the University Grants Commission under Section 3 of the UGC Act 1956. SASTRA also has an MHRD-notified off-campus named Srinivasa Ramanujan Centre (SRC) at Kumbakonam.

As a comprehensive University, its teaching programmes are complemented by research engagements, consultancy assignments, training and extension activities. This has been re-accredited by NAAC (fourth cycle) With a maximum grade of 'A++' (3.76/4.00) and is a Category I Institution based on the UGC's categorization of Universities for Graded Autonomy Regulations, 2018. Twelve engineering programmes of SASTRA have been internationally accredited for a period of 9 years by the Institution of Engineering & Technology (IET), UK recognizing SASTRA's academic excellence. In the NIRF ranking, SASTRA has always been placed among the top 40 Universities with a current position of #28 in 2024. It is also recognized as a Scientific & Industrial Research Organization by the Government of India.







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## Contact Us

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