





K J Somaiya Institute of Management

Somaiya Vidyavihar University

Master of Computer Applications (MCA)

(Batch 2023-25)

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Somaiya Vidyavihar University

A new milestone in a glorious ongoing journey established in 2019, Somaiya Vidyavihar University, Mumbai, is a self-financed autonomous university recognised by the University Grants Commission (UGC). Somaiya Vidyavihar, with over six decades of rich experience in building and managing educational institutes of great repute, is the sponsoring body. Operational from 26th August 2019, Somaiya Vidyavihar University is a place where you can explore new possibilities, pursue your passion and above all, find yourself.

Somaiya Vidyavihar University is located in the heart of Mumbai and boasts of a sprawling green campus. The university is equipped with excellent educational, recreational, community, health, and sports facilities. Somaiya Vidyavihar offers students the flexibility to simultaneously earn degrees and certifications in multiple disciplines offered by our constituent colleges.



Message from the Chancellor



Shri Samir Somaiya Chancellor Somaiya Vidyavihar University

Welcome to Somaiya Vidyavihar University. We are a place where you can explore new possibilities, pursue your passion, and above all, find yourself.

Our motto is: ज्ञानादेव तु कैवल्यम् | Knowledge alone liberates. Knowledge provides opportunity. To make the life lived more meaningful. In the service of one's family, one's community, one's समाज, country, and indeed the world.

The education we provide will reflect its timeless fundamentals, its current context, and applications. We will strive to provide you with an environment to engage this world, to discover new truths, make new applications to create and share knowledge. Our education will also be experiential and holistic. With projects that are real and those that complement the learning inside the classroom. We want you to be at the cutting edge of change, to incubate companies, to create NGOs, and pursue any field of your passion. Our education will also instill an appreciation for art and culture, the Indian tradition, and will include sports as a part of the campus experience. We want each of you to lead a full life, to fall in love with life.

Our dream is to build a world class research and teaching institution, that is global in the reach of its ideas, and universal in its service. I invite you to come and be a part of our community and to further this mission.

Message from the Vice Chancellor

Prof. V. N. Rajasekharan Pillai Vice Chancellor Somaiya Vidyavihar University



I have great pleasure in welcoming the prospective management education aspirants to the Somaiya Vidyavihar University, Mumbai for their studies in the university's K J Somaiya Institute of Management. The subject of Management as an academic and professional discipline has been undergoing revolutionary changes during the last few decades. Appropriate knowledge and skills are necessary to manage the rapid changing times and technologies in a globalized and interconnected world. We are in an era when knowledge is expanding at an unprecedented rate. Mastering theoretical, experimental and practical management and business skills through effective education programmes is indispensable for developing core competencies and for giving the students a competitive edge. For maximisation of the opportunities for the cost-effective management education and training, globalisation, localisation, contextualisation and individualisation of curriculum and transactions are necessary.

Bearing these basic principles and dynamic challenges, we at K J Somaiya Institute of Management have been at the forefront of quality and responsible management education in the country. Our Master of Computer Application (MCA) programme are designed, transacted and delivered following internationally renowned patterns evolving the best practices in business and management education.

Amongst our alumni are top-ranking and highly-placed executives all over the world. Highly qualified and experienced faculty, state-of-the-art infrastructure, the business and industry environment of the financial capital of the country, and a serene, beautiful green campus with several sporting facilities and other educational, research and innovation institutions are the hallmarks of K J Somaiya Institute of Management and the Vidyavihar campus of the University. Our academic credentials, achievements, national and international accreditations and recognitions put us among the top-most institutions in the country. I am extremely glad to welcome you as a student of this premier management institute in the Somaiya Vidyavihar University. Once you are here, I am sure you will enjoy the best of teaching and learning, research and community experiences in your student life.

Message from the Director



Raman Ramachandran Ph.D Director - K J Somaiya Institute Of Management Dean - Faculty Of Management Studies, Somaiya Vidyavihar University

I am delighted to welcome you to our MCA programme at KJ Somaiya Institute of Management, Somaiya Vidyavihar University. With 40+ years of legacy, KJ Somaiya Institute of Management, works with a mission to foster a spirit of inquiry, enable livelihoods, encourage innovations and create good citizenships.

Our MCA programme is designed to provide students with a comprehensive understanding of computer application principles and practices. With an emphasis on practical application, our programme prepares you to become innovative problem-solvers and leaders in your chosen field. We have a large number of illustrious and successful alumni who are also a testimony to this legacy.

Our key goal at the institute is to develop 'Day 1' industry-ready graduates. We do this by a curriculum designed to ensure that you have a right balance of 'hard' and 'soft' skills besides a strong focus on building your character based on values and governance. We believe that MCA is not just about technical skills, but also about teamwork, communication and collaboration.

We are privileged to have a faculty base who are a mix of very experienced academicians leading research programs and professors who have considerable industry experience. Our faculty members are committed to providing a stimulating learning environment that challenges you to develop your critical thinking, creativity and analytical skills.

I invite you to explore our MCA program and discover the opportunities that await you. Whether you are just starting your academic journey or seeking to advance your career, we are here to help you achieve your goals and reach your full potential.

K J Somaiya Institute of Management

K J Somaiya Institute of Management was established in 1981 as a part of Somaiya Vidyavihar (now affiliated to the Somaiya Vidyavihar University since August 2019) with the objective of providing state of the art education in management and allied areas. The institute is consistently ranked among the Top 25 management institutes and Top 10 private sector B-schools in India. The institute offers Doctoral Programmes, full time, part time and executive programmes in Business Management with specializations in International Business, Retail Management, Financial Services, Integrated Marketing Communications, Healthcare Management, Sports Management, Data Science & Analytics, Finance, Human Resources, Operations, Marketing and Executive MBA programmes along with a Masters in Computer Applications. Apart from the regular programmes, the Institute offers customized and industry specific certificate and executive development programmes for government bodies, companies, defense personnel and NGOs.



Programme in Focus

Two Year Master of Computer Applications (MCA) Programme Batch (2023-2025)

Four Semester Integrated Programme with compulsory internship and option to study abroad during semester III / IV

Coordinating Department

Data Science and Technology

Objective

Programme:

To prepare students for a career in information Technology, Analytics and its allied industry by providing them with state-of-the-art facilities and upgraded curriculum.

Area (Department):

With data being recognised as the new oil for an organisation, the area: Data Science and Technology (DST) Intends to equip the students with the concepts that will help to make sense of data to apply various Communications, statistics, human behavioural and cognitive models along with information technology and Analytical tools in several areas or domain.



Programme Details

Induction

The Induction programme is conducted to get the incoming students acquainted with the institute's environment, interact with the faculty, exchange views with seniors.

The sessions include:

Duration	10 days (45 hours)
20 hours	Programming Foundation
15 hours	Spreadsheet Essentials
10 hours	Presentation Skills

Important Courses:



Technology

- Programming and Coding Languages
- Advanced Database Techniques
- Object Oriented Analysis and Design
- Web Application and Services
- Blockchain Technology
- User Experience Design
- Machine Learning
- Computer Vision
- Ethical Hacking



Analytics

- Business Statistics
- Business Intelligence
- Data Visualization
- Python Programming
- HR Analytics
- Retail Analytics

က္လို Techno - Management

- Software Project Management
- Design Thinking
- Industry 4.0
- Design & Management of Information Systems
- Business Development of IT (Product / Services)
- IT Infrastructure Library

- Design and Analysis of Algorithm
- Advanced Communication Technologies
- Mobile Application Development
- Distributed & Cloud Computing
- IoT and Remote Sensing Techniques
- Artificial Intelligence
- Deep Learning
- Cyber Security
- Agile Computing and DevOps
- Research Methodology
- Big Data Analytics
- R Programming
- Web Analytics
- Sports Analytics
- IT Quality Assurance
- Digital Marketing
- FinTech Concepts
- E-CRM
- IT Compliances
- Technology Consulting

Important Course List

- Artificial Intelligence
- Business Statistics
- Database Applications
- Presentation and Communication Skills
- Python Programming
- Web Technology
- Big Data Analytics (Using Hadoop Framework)
- NoSQL Databases
- Research Methodology
- Advanced Java
- Business Intelligence
- Machine Learning
- Software Engineering and Quality Assurance
- Advanced Communication Technologies
- Blockchain Technology
- Cloud Computing
- Cyber Security
- Design and Analysis of Algorithm
- IoT and Remote Sensing Techniques
- NEP Recommended Course
- First Aid training for a week
- Street plays for social awareness
- Swacch Bharat activity
- Value addition for deprived school/ Mentoring of School Children
- Waste/ e-waste Segregation problems and propose solutions.

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MCA Batch 2022-24 Profile



Student Testimonials



The two-year MCA degree focused on delving deeper into the field of computer application development through the study of modern programming languages.

My MCA programme's coursework were all interconnected with the most recent and industry-standard software technologies. The college campus is massive and has cutting-edge laboratories.

The placement Committee is highly supportive and provides us with opportunity to develop interview skills, communication skills, and placement guidance. I treasured events like ICON, guest talks on various parts of IT, and all of the chances given by the various committees.



For someone who opted for a full-time master's course after working in corporate for two years, this course was a perfect choice. An excellent 2-year program that covers almost all the leading technologies and an internship that makes one industry ready. Our batch experienced both online and offline modes of education, and despite the difference between both modes, the quality of education was unaltered. The journey from being an employee in a renowned IT company to a student became a cakewalk for me, thanks to all the professors who guided and supported me. The curriculum imbibed the required skills, which helped me participate in a tech-fest ICON. where I led a development team, and I even made it into an inter-college hackathon where I won the runner-up title. Being a member of the SICTIM team allowed me to get associated with IEEE and also helped me gain a wealth of knowledge about the conference, procedure, and research papers from my fellow mates and professors. The mock Interviews and guidance sessions from various industry experts and our alums boosted our placement process, which helped us understand and improve our weaker areas. Overall, this institute helped me grow holistically with the development of my personality and the skills required to excel in the industry.



Shruti Rane 2021-23 Batch

Student Testimonials



2021-23 Batch

Upon enrolling for MCA at the K J Somaiya Institute of Management, I sought an education to equip me for success in the highly competitive IT industry. The college's strong curriculum including modern technology, along with its focus on personal growth, exceeded my expectations.

KJSIM prioritised staying at the forefront of technological advancement. The techno-management curriculum is industry-standard, and the college's commitment to technological advancement prepared us for the dynamic world of business and technology. Despite tight schedules and back-to-back exams, the faculty's dedication to academic excellence never faltered. The faculty were dedicated and supportive, pushing us to reach our potential.

Being the admin of the annual tech fest along with other involvements helped me develop leadership skills while collaborating with talented teams to bring new ideas to the table. Despite the challenges of the first fest held after the COVID pandemic, it created unforgettable and cherishable memories. The college's dedication to extracurricular activities encourages students to pursue their interests beyond the classroom, fostering holistic development.

My experience at KJSIM has been transformative. Although our batch started online in the midst of the COVID pandemic and then transitioned to sudden offline classes, the institute's dedicated academic quality never wavered. I highly recommend it for a top-quality education that values both academic excellence and personal growth.



Infrastructure



Technology Based Learning

- **Bloomberg Lab**
- **Media Analytics Lab**
- Geared with software packages such as SPSS, AMOS, SAP-ERP etc

Library

- Fully computerized library
- **150 Periodicals**
- Harvard Case Subscriptions
- 95000+ Books
- 20+ E-databases



Sports Facilities

- Badminton, Squash & Tennis Courts
- Athletic Track & Open air chess
- Gymnasium
- Volleyball & Basketball Courts
- Yoga, Tai Chi



Hostel

- Separate hostels for boys & girls
- Well Equipped with facilities such as internet, mess, activity room, night mess, Laundromat



Medical Facilities

- On call doctor and round-theclock medical dispensary
- Counselors available



Auditoriums

- Two state-of-the-art auditoriums with capacity of 250 each
- Tagore amphitheatre for cultural programmes

Life at Campus

























Pedagogy



Workshops



Field Visits



Presentations



International Immersions







Guest Lectures



Electives Offered





Simulation

Somaiya International Conference on Technology and Information Management (SICTIM 2023)

Organized by Department of Data Science & Technology, K J Somaiya Institute of Management, Somaiya Vidyavihar University

Technical Sponsor - IEEE Bombay Section

The Department of Data Science and Technology organized the 9th edition of Somaiya International Conference on Technology and Information Management (SICTIM 2023) organised by Department of Data Science and Technology of K J Somaiya Institute of Management in association with IEEE Bombay Section on theme Value Creation through Digital Transformation. The core conference committee comprises of Dr. D. G. Jha - Conference Chairperson, Prof. Sudarshan Sirsat - Conference Convener, Dr. Sangeetha Rajesh – Conference Co-Convener. The conference was held on 24th and 25th March 2023.

The pre-conference workshop was held on 23rd March 2023 by Prof.(Dr.) Bo An, Professor, Computer Science, Co-Director – Artificial Intelligence Research Institute, Nanyang Technological University, Singapore on topic 'Reinforcement Learning and its Applications'.

Dr. D G Jha in his welcoming address the distinguished gatherings informed that the conference attracted 122 papers and after 3 rounds of peer-review, 22 were selected for final presentation. Dr Raman Ramachandran in his opening note lauded the efforts of team in putting the theme together and stressed the need for transformation and efforts needed to bring about the digital disruptions in true sense. Prof V N Rajasekharan Pillai, Vice Chancellor of Somaiya Vidyavihar University in online special address advocated the use of digitalization that would help learners keep track of their academic progress and disruptions in higher education will be increasingly driven by digital processes. Prof Ragunath Shevgaonkar, Provost of Somaiya Vidyavihar in his theme talk emphasised on government's initiative in the field of e-governance, next gen financial services, e-commerce, health, energy and agriculture towards transforming our nation by 2025. Prof B Satyanarayana, Immediate Past President of IEEE – Bombay Section interestingly brought in the new perspective stating every adversity that mankind faced led to new and better innovation in the field of technology. The Guest of Honour, Mr Rohit Kilam, CTO, CMS Info Systems, in his address cited numerous instances from his professional experience that helped him strategizing the digital transformation initiatives. Ms Binita Prasad, Head, IT & Digital, SAINT-GOBAIN – Grindwell Norton, the Chief Guest of SICTIM 2023 pointed out that all the strategies of business in the modern world is customer centric.

The second workshop was held on the 1st day of conference i.e on 24th March 2023 on 'Moving Toward Intelligent Enterprise – IoT/3D Modeling from concept building to prototyping' by Prof Ninad Mehendale, Associate Professor, Department of Electronics, K J Somaiya College of Engineering, Somaiya Vidyavihar University, Mumbai. Conference received 122 papers and after 3 rounds of peer-review, 22 were selected for final presentation on 25th March 2023 in three different tracks such as Data Science, Network and Cyber Security, TechnoManagement.

On 25th March 2023, the Valedictory function was chaired by Dr Santosh Chappaneri from IEEE Bombay Section. Three best paper awards were declared from each of the tracks. The conference ended with the National Anthem.

2017	2018	2019
Digitization and Automation:	Datafication:	Digital Transformation:
Innovate Disrupt Transform Society	Extract. Transform. Derive.	The Change Catalyst
2O2O	2O2I	2O22
Datanomics - Future of Business:	Digital Disruption and	Technology Inclusion -
Insight. Innovate. Impact. Iterate.	Knowledge Society	The Only Way Ahead
	2O23 Value Creation through Digital Transformation	



Beyond Academics

Industry Connect

Campus Connect by General Mills inc.:

The Quiz Contest was part of the Campus Connect program by General Mills. More than 200 students participated in the Quiz Contest from across 5 different institutes. It was a one-day event wherein 5 Teams were selected for the final round.

Kakushin by Nomura Holdings Inc.:

Kakushin is an annual hackathon conducted by Nomura India at K J Somaiya Institute of Management. It is conducted during the placement season when the company sends invites to top colleges where any IT student can register and apply. It is a multiple round hackathon where the planning, management, technical, communication skills of students are tested as to how you tackle the real life problem with help of technology. K J Somaiya Institute of Management MCA Students have won and been in the top-3 ranks for both the years. It is a great opportunity to learn and apply your skills technically as well as innovatively which could result in getting an internship or PPO in the company itself.

Hackathon

CSI Student Chapter at K J Somaiya Institute of Management along with SAP Next Gen Lab organized a HACKATHON on Machine Learning.

The purpose of this hackathon was to provide specialized information on Machine Learning Using SAP to students.

Seminar on Block Chain Technology

IEEE Student Branch of K J Somaiya Institute of Management organised a seminar on Block Chain Technology on 29th January, 2019 at K J Somaiya Institute of Management. The Keynote speaker for the event was Mr. Prasanna Lohar, Head Innovations and Architecture at DCB Bank.

This was a second session organized by IEEE-SB KJSIM and Department of IT at K J Somaiya Institute of Management under the Theme of 'Skill and Knowledge Enhancement Program'.

Extra Curricular

The Students of MCA conceptualise, plan and execute ICON, a techno-management inter-institute event with different trending themes every year.



ICON 2022 Department Techfest

ICON is the flagship inter-collegiate tech-fest organized by MCA students of Department of Data Science and Technology. The key objective of this event has always been to foster scientific thinking, innovation, creativity, and some good old-fashioned fun.

At ICON, contests are just a means of bridging the gap between inspiring new ideas and gaining fresh learning experiences from peers and professionals alike. We offer a platform for all youngsters to showcase their talents and maximize their potential, all while elevating the festive spirit.

With the internet revolutionizing the entire digital era, with connected through devices with ubiquitous internet, giving rise to the most cutting-edge technology "Internet of Things", the theme for ICON 2022 event was based on Internet of Things - "ICON of Things". The 16th edition of ICON was organized by the MCA students on 24th, 25th and 26th November 2022, at K J Somaiya Institute of Management. The motivated students created a campaign that attracted more than 429 participants from across the country.

Most of the events were conducted on hybrid mode and the whole event going smooth and fluent! Day 1 of ICON2022 started with CODEICON 4.0, a hackathon to create an excellent opportunity to enhance the participant's skills and earn cash prizes. The event was conducted in association with General Mills, one of the world's largest food companies. The team comprising of executives from General Mills and Team ICON saw 22 teams of 72 participants cracking codes and engaging themselves in generating the solutions. In addition to cash prize, the selected participants also got an internship opportunity with General Mills.

ICON was inaugurated on 25th of November 2022 at 10.30 am with the Gallery – ICON of Things inauguration by Dean and Director Dr. Monica Khanna ma'am. The Director madam enlightened us with her inspiring words and gave our confidence a boost for the fest! Their motivating speeches covered topics of advancement in technologies and the ubiquitous information transfer, about ICON and how it started and is growing into such a big event, and appreciation for the hard work of the students.

The two-day Tech-Fest was marked by several technical events such as coding decoding, web designing, tech knowledge and non-technical events such as Creatography, Content Writing, Treasure Hunt, Valorant, Big Chess, Cricket. All these events collectively had over 100+ students participating with zeal and winning cash prizes and goodies associated with it. The event ended with the valedictory function. Mrs. Anjali Sharm and Mrs. Vineeta Masand from General Mills India graced the occasion as invited Guests. Faculty from the Department of Data Science and Technology, Students Organizing Teams and all the participants were present in full colors. The winners of the events were announced.



International Immersion & Linkages



K J Somaiya Institute of Management has 30+ International tie-ups



Admission Process MCA Programme



#Provisional admission will be offered to the Candidates based on their qualifying exam scores.

MAH-MCA-CET - Conducted by Directorate of Technical Education (DTE)

PERA-CET - Conducted by Preeminent Education & Research Association (PERA)

CUET - Conducted by NTA

Selection Parameters

Program Name: Master of Computer Applications (MCA) Batch: 2023 – 2025 Affiliated to Somaiya Vidyavihar University Intake – 60 Nos. Duration: Two year full time

Eligibility Criteria:

- Passed minimum three year duration Bachelor's Degree awarded by University recognised by University Grants Commission or Association of Indian Universities in any discipline with at least 50% marks in aggregate or equivalent
- Studied Mathematics as one of the subjects at (10+2) level or at Graduate level examination
- Candidates appearing for final-year examination can also apply

Selection Parameters:

Sr. No.	Parameters	Percent
1	Qualifying Entrance Exam - MAH-MCA-CET (or) PERA-CET (or)	100%
	CUET	

Important Dates:

Last day to fill online application form	31st May 2023, 11:59 pm	
Inaugural Ceremony of Programme	17th August 2023 (Tentative)	
Commencement of Induction Programme	18th August 2023 to 23rd August 2023 (Tentative)	
Commencement of Semester 1 Classes	24th August 2023 (Tentative)	



Fee Details

Master of Computer Applications (MCA) – Batch 2023-25 2 Year - Full Time Programme

MCA Fee Structure Batch 2023-25	l - Year F.Y. 2023-24	<mark>II - Year</mark> F.Y. 2024-25	Total Fee I + II YR
Tution Fees	2,76,668/-	2,99,171/-	5,75,839/-
Development Fees	55,332/-	59,829/-	1,15,161/-
Total	3,32,000/-	3,59,000/-	6,91,000/-

Note:

*The above fee excludes Caution Money of Rs. 10,000/- in 1st year & Alumni Fee of INR 2500/- in final year **Refundable

Financial Aid: To be announced

Hostel and Mess Fees: Click Here

Application Form Fee: Somaiya Application Form fee (Transaction Charges Applicable): ₹ 1500.00 (Non-Refundable and Non-Transferrable) Cancellations Rules: As per UGC Cancellation Policy and Somaiya Vidyavihar University policy



Illustrious Alumni

Prathibha Raman

1998 Batch VP & Sr. Program Manager Citi Bank, Canada

Jyoti Natarajan

1999 Batch Vice President JP Morgan Chase

Jubin Kothari

2000 Batch Product Manager DocuSign

Savio Pereira

2002 Batch Director Citi Bank

Aditya Sharma 2006 Batch Vice President

JP Morgan Chase

Vipul Nagaria 2009 Batch Director SSNC GlobeOp

Satjyot Dighe 2009 Batch Senior IT Specialist

LTI - Larsen & Toubro Infotech

Faiz Khan

2010 Batch Manager Adani Electricity

Kanchan Dhar

1998 Batch Consultant - Project Manager CGI

Francis Ouseph

1999 Batch Architect Dell Technologies

T. Ajoy Raj

2000 Batch Technical Architect Hexaware Technologies

Ashish Joshi 2002 Batch

Founder & CEO Artium

Tini Mangal 2009 Batch

Vice President Morgan Stanley

Sachin Khandagle 2009 Batch

Managing Consultant Capgemini

Kedar Maduskar

2010 Batch Manager Deloitte

Satish Hatte

2010 Batch Project Lead LTI - Larsen & Toubro Infotech



Some of the notable recruiters - Nomura, Asian Paints, General Mills, CRISIL, Dmart, Cornerstone, Duck Creek, Kotak Life, etc

The students also participated in quiz - competitions like Kakushin (Conducted by Nomura) & Code ICON (Conducted by General Mills). This participation gave the students the much desired exposure. At Kakushin, one of our team stood second in overall ranking. The other events like ICON and SICTIM gave students the opportunity to showcase their talent and also relate the knowledge acquired in class to designing real - life practical solutions.

Final Job placements Highest CTC: Rs. 11,50,000 pa Average CTC: Rs. 7,49,992 pa

Mandatory Internship Project (Full credit – 150 marks) Highest Stipend: Rs. 55,000 pm Average Stipend: Rs. 23,989 pm



Contact us:

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