I hope that this year is off to a good start for you, and that this year enriches you with much awaited God's bountiful blessings.

After a successful first edition of Tantrakosha, the department of MCA is now ready with its second news letter bringing before you its outstanding accomplishments As they share the department centered news with you. I am immensely thank the editor, the Dean and the faculty for their generous contribution and the continued support in updating you with chain of events that were coordinated in this department. My whole hearted appreciations to all the students of MCA department for your vigour and enthusiasm that you display in your learning experience at SJEC.

We look forward to many more Tantrakosha editions with enriching insights and experiences.

With best regards,
Rev. Fr Wilfred Prakash D'Souza
Director - SJEC

I am happy to learn that the Department of Computer Applications bringing out the second volume of "Tautrakosha" the News letter of the department. This newsletter reports about the achievements of the students of the department under the student association "Technocrats" who are actively involved in conducting various programs. On the other hand they participate in fests conducted in other institutions where they harvest many laurels. The staffs and students publish their work related computer applications. In this way department generates enough news worthy of reporting, Tantrakosha provides best platform.

I thank the Editorial Board, the HOD, staffs and the students of the department for their best efforts in successfully publishing newsletter "Tantrakosha" and I wish them all the Best.

With best regards,
Fr Kenneth Rayner Crasta
Assistant Director - SJEC

The upcoming issue of Tantrakosha, the Department of Computer Applications' newsletter, is a cause for celebration. It reflects the department's vibrant energy, driven by both the faculty's inspiring leadership and the students' active engagement.

The MCA program fosters the development of well-rounded graduates. Students are presented with numerous opportunities throughout the year to hone their professional skills, both technical and soft. From coding competitions to workshops on cutting-edge software, students gain practical experience that sets them apart. Their success speaks for itself, with overflowing trophy cabinets and impressive internship placements at leading companies. This dedication ensures they'll graduate as top-tier professionals, thanks in no small part to the exceptional faculty who guide them with their expertise and industry connections.

Therefore, Tantrakosha serves as a well-deserved tribute to both students and faculty.

With best wishes,
Dr Rio D'Souza
Principal - SJEC

Tantrakosha, the Department of Computer Application's newsletter, bridges the gap between past and present students, keeping everyone informed about the exciting developments at College. This newsletter serves as a platform to celebrate the achievements and advancements of both our esteemed faculty and talented students in the ever-evolving field of computer technology.

We believe in nurturing the potential of each student. We provide ample opportunities for them to flourish both individually and academically, empowering them to become valuable contributors to society. We are thrilled to bring you this latest edition of Tantrakosha, packed with inspiring stories and news. Dive in and discover the brilliance of our department!

With best wishes,
Dr Purushothama Chippar
Vice Principal - SJEC

Editor in-charge
Mr. Murari B K
Assistant Professor - MCA

Tantrakosha

Welcome to a fresh new issue of Tantrakosha, the newsletter bursting with news from the Department of Computer Applications. Like a bridge across time, Tantrakosha connects our amazing alumni with our current students, keeping everyone in the loop about the exciting things happening at College.

This issue is brimming with reasons to celebrate! We'll be shining a spotlight on the incredible achievements of both our dedicated faculty and our talented students who are pushing the boundaries of computer technology. We're passionate about nurturing the potential within each student.

Get ready to be inspired! Dive into this edition of Tantrakosha and discover the awe-inspiring brilliance of our department.

With best wishes,
Dr Hareesh B
HOD - MCA

About the Department

The Master of Computer Applications (MCA) programme was started in the year 2008 with an intake of 60 students. The department offers a regular three year course and lateral entry two year course approved by AICTE, Gort of India and is affiliated to Visvesvaraya Technological University (VTU), Belagavi, Karnataka.

Computer Applications at SJEC is composed of core classes organized around the study of design and analysis techniques used to write software in various application domains along with details about the internal workings of computers and networks. Elective classes in areas such as Rich Internet Applications, Mobile Computing, Advanced Computer Networks, Graphics. Unix System Programming, Artificial Intelligence and others allow students to explore areas of individual interest.

Vision

To be recognized as a department with research environment empowering computer professionals with a strong sense of service and human values at the core.

Mission

- Inculcate professional behavior with strong ethical values and innovative research capabilities among faculty and students.
- To meet the global needs and challenges through training of professionals who can work with interest to support the society.
- Encourage faculty to have continuous progress in their teaching skills and self-development.

Internship

The MCA programme includes a one month internship and project study in different companies to enable students to gain practical experience and make a transition into the industry. Our students have done a number of the outstanding projects well appreciated by their managers and companies.

Faculty Details

Mr Ragesh Raju was the Resource Person for AICTE – Sponsored Two Weeks FDP on "Empowering Teaching Learning Skills Using Modern Pedagogy Tools in Technology Education" at UBDTCE, Davangere during October 2022

Activities

The orientation program for the newly admitted MCA students was organized from 6th February 2023 to 8th February 2023. Distinguished resource persons from the college participated in this program. The fresh batch of students actively participated in the event.

Department of Computer Applications in association with Accolade Tech Solutions Mangaluru organized 2 days hands-on workshop on Mobile Application Development on 3rd & 4th August 2022.

IEEE Student Chapter in association with the Department of Computer Applications is organized a technical talk on the topic "Innovation and Intellectual Property Rights" for I year MCA students on 13th October 2022 by Dr. Purushothama Chippar Vice Principal SJEC.

The Department of Computer Applications successfully organized a "project exhibition" for IV and VI semester students on July 25, 2022. The event showcased the innovative spirit and technical prowess of the students, with approximately 10 projects making it to the final round of the exhibition. Judged by Ms. Sunitha Guruprasad, Assistant Professor from the Department of CSE, the exhibition served as an invaluable opportunity for first-semester students to engage with advanced IT concepts and explore the vast research opportunities within the application field.

The Farewell Function for MCA 2020–2022 Batch was conducted on 4th July 2022 in Kalam Auditorium. The function was organized by I year MCA students of SJEC

Tantrakosha

"The Technocrats" - Students Association of Department of Computer Applications of SJEC conducted Joshiana 11.0, a 2 day National Level IT Fest for the students of MCA, M Tech, MS BCA, B.Sc (CS) on 6th and 7th September 2022. The fest was organized under the aegis of the Department of Computer Applications and we have witnessed it over the last two days. Joshiana 11.0 was inaugurated with the lighting the lamp by the dignitaries which included Mr. Mohammed Aymen, SAP Architect, SAP Labs, who was the Chief Guest at the Inaugural Function. The other dignitaries present on the dais were Rev. Fr Wilfred Prakash D'Souza-Director, SJEC who presided over the ceremony, Fr Alwyn D'souza -Assistant Director of SJEC, Dr Rio D'souza of SJEC, Ms Sumangala N-I/C HOD MCA, SJEC, Mr Gururaja S , Co-Convener of Joshiana 11.0, Mr Nikhil B -President, TechnoCrats and Mr. Deepak Boniface Cardoza Secretary, TechnoCrats The gathering was welcomed by Ms Sumangala N-I/C HOD MCA, who extended warm wishes to all the people present during the Inaugural. Mr Nikhil B, the President of the TechnoCrats, briefed the gathering of the events that would be held over the 2 days. This was followed by the unveiling of the trophies for which the participants were competing against each other.

Department of Computer Applications in association with Accolade Tech Solutions Mangaluru organized 2 days hands-on workshop on Mobile Application Development on 3rd & 4th August 2022.
IEEE Student Chapter in association with the Department of Computer Applications is organized a technical talk on the topic "Innovation and Intellectual Property Rights" for I year MCA students on 13th October 2022 by Dr. Purushothama Chippar Vice Principal SJEC.

14 students of MCA participated and secured multiple prizes in Medha 2022 a National Level Technical, Management and Cultural Fest conducted by Shree Devi Institute of Technology, Mangalore on 2nd July 2022.
13 students of MCA participated and secured multiple prizes in Epitome 2022 a National Level Technical and Cultural Fest conducted by St. Aloysius College (AIMIT), Mangalore during 4th and 5th August 2022.
11 students of MCA participated and secured multiple prizes in Semaphore 2023 a South India Level Technical Fest conducted by NMAMIT, NItte during 5th and 6th January 2023.
12 students of MCA participated and secured multiple prizes in Shells IT Fest 2023 a National Technical Fest conducted by Kristu Jayanti College, Bangaluru on 25th January 2023.
12 students of MCA participated and presented papers in International Conference SRISHTI-2023 held on 26th July 2023 at Vivekananda College of Engineering & Technology (VCET), Puttur.

Achievements

Aaron Mendonca has published a paper entitled "VA modular way of recognising different face expression using different phases of recognition technique" in International Research Journal od Modernization in Engineering Technology and Science (IRJMETS) September 2022.
Aman Sameer Chikodi has published a paper entitled "Venomous and Non-Venomous snakes identification application using android" in International Research Journal od Modernization in Engineering Technology and Science (IRJMETS) July 2022.

Placements

Industry partnerships boost student internships, projects, and placements, while I-Point training and departmental placement activities develop well-rounded, job-ready graduates.

Sl No.	Name of the Company	No. OF STUDENTS
1	CodeCraft Technologies	2
2	Comviva	1
3	7Edge	1
4	Access Research Lab	4
5	Academic Counsellor-Teachnook	3
6	Invenger Technologies	3
7	Skolar	17
8	Skillwinner	3
9	Rinex Technologies	8
10	BlueFlame Labs	1
Total Offers		43

Results

Results of Odd & Even Semester 2022-23

Results Of Odd Semester 2022-23		
Class	Total No of Students	Percentage
I Sem MCA	120	90.83
III Sem MCA	60	100

Results Of Even Semester 2022-23		
Class	Total No of Students	Percentage
II Sem MCA	120	97.50
IV Sem MCA	60	100

Tantrakosha

Programme Educational Objectives (PEOs)

Graduates will be able to:

- Have appreciation for, Professional and Ethical responsibilities through strong commitment to values.
- Acquire essential fundamentals and adopt techniques and skills to critically identify, formulate and solve computational problems.
- Effectively design, develop and manage computer applications, using modern tools and techniques.
- Develop confidence for self-education and innovative entrepreneurship.

Programme Outcomes (POs)

Graduates will have the ability to:

- Apply knowledge of mathematical, algorithmic, and computing principles.
- Analyze and interpret data, make inferences from the resulting data and apply technical skills to solve real time problems
- Design a system or module, to meet desired needs, which undergoes various phases of software development lifecycle.
- Investigate, design and conduct experiments, by applying critical thinking to solve complex problems.
- Make effective use of modern tools and techniques to develop a software system.
- Inculcate Professional and Ethical attitude.
- Understand the need for, and have an ability to inculcate quality, timeliness and continuous improvement.
- Develop managerial skills in multidisciplinary approach.
- Prepare technical documents and make effective presentation.
- Design and construct a system, component or process to meet desired needs, within realistic constraints such as economic, environmental and social sustainability.
- Develop teamwork, and leadership skills necessary to function productively and professionally to undertake a common goal.
- Develop as an Entrepreneur in the software domain through innovative approach.
- Work on research activities.