



ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru

2021-2022

Tantrakosha

A Newsletter of Department of Computer Applications

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,
Rev. Fr. Alwyn Richard D'souza
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,
Ms Sumangala M
In-Charge HOD

Editor in-charge
Mr. Hareesh B
Assistant Professor - 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 awarded International Outstanding Educator Award 2021 by Green ThinkerZ Registration Act, Government of Punjab, India

Mr Hareesh B has participated and presented the Research Abstract in the Ph.D Scholars' Research Colloquium 2021 organised by MIT Manipal in the association with IEEE Mangaluru Sub-Section on October 9, 2021.

Mr Ragesh Raju awarded National Bright Edu-Trainer Award 2021 by Green ThinkerZ, Registered Society under Societies Registration Act, Government of Punjab, India

Best Presentation Award was awarded to Mr Hareesh B for securing First Place for the presentation titled "Analysis of Agriculture Change Detection by using Graph based Image Segmentation Techniques" at the Ph.D Scholars' Research Colloquium 2021 organized by MIT Manipal in the association with IEEE Mangaluru Sub-Section on October 9, 2021.

Mr Sathyendra Bhat received the Best Paper Award at ICTIEE 2021.

Mr Sathyendra Bhat filed a Patent titled "Hybrid Memory Cube Oriented Image Classification using a Machine Learning Technique" that was granted in September 2021.

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 2021.

The research proposal titled "Detecting Social Anxiety Disorder among Professional Students through Cloud Data Analytics with Reference to Pre and Post COVID 19 Pandemic Period" submitted by Mr Sathyendra Bhat is eligible for INR 5 Lakhs funding through AICTE RPS scheme.

Activities

Guest Lecture

The Department of Computer Applications organized a Guest Lecture on "Current Technology Trends in Market" for I Year MCA students on 1st February 2022 from 2:30 pm to 4:00 pm in Spoorthi Hall, 7th Floor, Academic Block III. The resource person for this session was Mr Gopala Krishna Bhat, Kakunje Software Pvt. Ltd., Mangalore.

Reel in-Milan

Highlighting the event was the "Reel In- Milan" competition, which saw many talented participants. The victory was a testament to his skills and creativity, adding to the grandeur of the celebration. Their achievement in this national-level contest not only highlighted their knowledge and preparedness but also added a feather to the cap of their institution, showcasing the potential and caliber of its students in the realm of information technology.

Placements

Joshiana 11.0

A tech fest organized by department of MCA on 6th and 7th september 2022, was inaugurated by Mr. Mohammed Aymen, SAP Architect from SAP Labs. The fest featured 10 events including coding, web design, IT quiz, photography, videography, debate, gaming, vlogging, a team event, and dance. Conducted over two days by MCA students, the fest saw participation from 11 teams with 110 contestants.

Judges from both within and outside the college evaluated the events, with external judges like Mr. Sanket Udaya Kumar and Mr. Girish Shet judging photography, videography, and vlogging. Web Designing was judged by Mr. Harish Neermarga, while the Mega Event and Best IT Manager were judged by Mr. Anvitha Acharya, Mr. Abishek Shenoy, and Ms. Prithvi Shet.

The fest concluded with a valedictory function, presided over by Dr. Rio D'Souza, Principal of SJEC, Mangalore. St Aloysius College won the UG category, Srinivasa Institute of Technology the PG category runners-up, and Kristu Jayanti College, Bengaluru, took the overall championship.



Students' Participation in Events

06 students of MCA participated and secured multiple prizes in Shells 2022 a National Technical Fest conducted by Kristu Jayanti College, Bengaluru on 25th May 2022.

Joshna Fernandes student of MCA secured second place in Thematic Dance during Incredea 22 held on 13 May 2022 at NMAMIT, Nitte.

Akash and Nithin Nayak students of MCA secured third place in IT Quiz during Shells 2022, National Intercollegiate IT Fest held on 25 May 2022 at Kristu Jayanti College.

Achievements

AFRATH AMAN student of MCA (2020-2022 batch) secured the **10th Rank** in University Examinations conducted by Visvesvaya Technological University (VTU), Belgavi for the Academic year 2021-2022



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	Code Young	8
2	Comviva	1
3	7Edge	3
4	SYX Services	4
5	CodeCraft Technologies	1
6	Upskillz	29
7	InMovidu Tech	6
8	Unschool	1
9	Intellipat	11
10	Acess Research Lab	2
11	bitLabs	10
12	Acmegrade Pvt Ltd	11
13	Rinex Technologies	15
14	TCS(Ninja)	2
15	Invenger Technologies	2
16	ESAF Small Finance Bank	4
17	QSpider	6
18	Ethnus	12
19	Sonata Software	1
20	Academor	6
21	Jaro Education	1
22	Robosoft Technologies	2
Total Offers		138

Results

Results of Odd & Even Semester 2021-22

Results Of Odd Semester 2021-22		
Class	Total No of Students	Percentage
I Sem MCA	60	100
III Sem MCA	57	94.74
V Sem MCA	3	100

Results Of Even Semester 2021-22		
Class	Total No of Students	Percentage
II Sem MCA	60	96.66
IV Sem MCA	57	98.25
VI Sem MCA	3	100

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.

ST JOSEPH ENGINEERING COLLEGE

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Affiliated to Visvesvaraya Technological University and recognized by AICTE, New Delhi
(B.E - MW, CSE, ECE & EEE Accredited by NBA, New Delhi)

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