



ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru

2020-2021

Tantrakosha

A Newsletter of Department of Computer Applications

I hope that the year 2021 is off to a good start for you, and that this year enriches you with much awaited God's bountiful blessings.

After a successful previous edition of Tantrakosha, the department of MCA is now ready with its next 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 next 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. Rohith D'Costa
Assistant Director - SJEC

One of the significant impacts brought about by enhanced connectivity of today's world is synergy Sharing of information, sharing of best practices, and sharing of ideas is revolutionizing life as such. Science and technology is the most benefitted from this development. A newsletter such as "Tantrakosha" is a visible example of the above mentioned synergy

In addition to being a repertoire of activities conducted by the Department of Computer Applications, the newsletter also takes the achievements and practices of the Department, and in a sense the College, to the outside world. It lets the educational community, and stakeholders at large, to know and be aware of the happenings in the Department, and partner us in the way forward.

I wish the students of Computer Applications the very beat in their endeavors. We are very proud of your achievements and appreciate your contributions. I also, congratulate the Department of Computer Applications whole, and the Editorial board of this issue of Tantrakosha in particular, for their wonderful work.



Wish you all the very best!
Rev. Fr. Alwyn Richard D'souza
Assistant Director - SJEC

It is heartening to note that the Department of Computer Applications is coming out with yet another issue of Tantrakosha. It is a tribute to the dynamic leadership of the faculty along with the active participation of the students of the department.

Being accomplished graduates, the students in the MCA course are expected to focus on developing their professional credentials through the numerous opportunities provided throughout the year. They do make the grade in flying colors! Judging by the trophies they bring in, they are sure to pass out as achievers of the highest order. The faculty in the department ensure exactly that. That is the reason why I believe that Tantrakosha, the departmental newsletter, is a tribute to the faculty and students....



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

Editor in-charge

Mr. Hareesh B
Assistant Professor - MCA

Tantrakosha

A Hearty welcome to the newsletter of the Department of Computer Application!

TANTRAKOSHA is the communication channel that aims to keep our students' past and present updates, about the happenings at St Joseph Engineering College Mangalore.

Our college is a hub of knowledge and gives uniqueness from all the other colleges. This newsletter focuses on highlighting staffs and students achievements and advancements in the field of computer technology. We believe in our students and we value their success. Each student is given maximum opportunity to grow and develop as an individual, and in return make a real and valuable contribution to society. We strive to develop happy, confident, competent, responsible, independent thinkers who realize their God-given potential.

We are privileged to hereby have our release of our newsletter TANTRAKOSHA.

Ms Sumangala M
In-Charge HOD

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 3 Days Workshop on "Effective Online Teaching & Learning" for the faculty of e-School for Remote Academia (eSRA), Ankuram Educational Trust, Mangaluru during 3 consecutive Sundays from Feb 28 till March 14 2021.

Mr Ragesh Raju was the Technical Team Member in the EIGHTH INTERNATIONAL CONFERENCE ON TRANSFORMATION IN ENGINEERING EDUCATION (ICTIEE 2021) (Online) Organized by IUCEE from Jan 8 to 10, 2021.

Activities

Anusandana - 2021: Celebrating Talent and Unity

In the midst of challenging times brought about by the pandemic, St. Joseph Engineering College (SJEC), Vamanjoor, rallied its students together for a remarkable online event: Anusandana - 2021. This vibrant competition provided a platform for our multi-talented students to showcase their skills across various domains. The event spanned three exciting weeks, commencing in the first week of June 2021. Students participated in a range of activities, demonstrating their creativity, eloquence, and artistic flair. The event was thoughtfully divided into two streams: Literary and Cultural Events and Technical Events which were organized by the Respective Students' Associations.

Despite the physical distance imposed by the pandemic, Anusandana - 2021 exemplified unity, resilience, and the indomitable spirit of SJEC.



Students embraced the virtual stage, proving that talent knows no boundaries. As we navigated these troubled times, our college community stood together, fostering solidarity and celebrating the brilliance within our student body.

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.

“Artificial Intelligence and Its Applications” Webinar

On 3rd July 2020, a webinar series titled “Artificial Intelligence and Its Applications” was held from 10:00 am to 12:00 noon. Open to all interested individuals, the webinar was graced by Dr. Pramod Kumar Naik, Senior Manager at Agimus Technologies Pvt. Ltd., Bengaluru, as the resource person. With 15 years of experience in the field, Dr. Naik provided profound insights into the world of Artificial Intelligence (AI).

Dr. Naik expertly navigated the expansive subject of Artificial Intelligence (AI), shedding light on its increasing significance in diverse fields. The attendees were enlightened about the revolutionary impact of AI and explored its varied applications. The webinar served as a platform for discussing the current trends in AI, as well as contemplating its future developments and ethical dimensions.

The session wrapped up with a dynamic question-and-answer segment, where Dr. Naik engaged with the audience, addressing their questions and deepening their comprehension of AI. The event was well-received and contributed meaningfully to the broader conversation surrounding AI and its role in society.

“Machine Learning Using Python” Webinar

The Department of Computer Applications conducted a webinar on “Machine Learning Using Python” on 28th July 2020. The session, held from 9:30 am to 10:30 am, was led by Dr. Smitha N Pai, Professor at the Department of Information & Communication Technology, MIT, Manipal. Dr. Pai, with her expertise, guided the participants through the intricacies of Machine Learning (ML) and its implementation using the Python programming language. The webinar provided a comprehensive overview of ML concepts and practical applications, tailored to resonate with both beginners and seasoned programmers.

The event was a part of the department’s initiative to enhance technical knowledge and skills among students and professionals interested in the field of Machine Learning. The webinar was well-received, with attendees expressing appreciation for the depth of knowledge shared by Dr. Pai.

The orientation program for the newly admitted MCA students was organized from 18th January 2021 to 22nd January 2021. Distinguished resource persons from the college participated in this program. The fresh batch of students actively participated in the event

Department of MCA in collaboration with SJEC Alumni Association organized a webinar titled "The Journey from Campus to Corporate, Pocket Money to Hard Earned Money" on Saturday, 22 May 2021, from 11:00 AM to 12:00 Noon for the students of MCA Department. The webinar was delivered by Mr Cedan Christopher Misquith, Team Lead of Mobile Dev Team at 7EDGE Private Limited and an alumnus from the MCA Class of 2015.

The Department of Computer Applications conducted a webinar on “Gamification in Education” on 29th July 2020. The session, held from 3:00 am to 4:30 am, was led by Mr. Ragesh Raju, Assistant Professor SJEC. With his expertise, guided the participants through the use of gamification for the education.

Achievements

Sushmitha student of MCA (2019-2021 batch) secured the **8th Rank** in University Examinations conducted by Visvesvaya Technological University (VTU), Belgavi for the Academic year 2020-2021



Placements

Industry interaction with the Department enhances students internship, consultancy projects and placements. Students are trained under I-Point, which helps in placements and highly focus on the overall Personality Development of every individual. The Placement Training Activities are also conducted for the students by the Departmental staffs to qualify them for placements.

Sl No.	Name of the Company	No. OF STUDENTS
1	TCS	5
2	Cognizant	11
3	Hexaware Technologies	1
4	VRIZE	4
5	Palle Technologies	5
6	Cognitive Cloud	7
7	Mavericks Education	2
8	Tayana Software Solution	1
9	Sonata Software	4
10	BNP Paribas	1
11	Tele performance	5
12	Cognitive Cloud	6
13	O Spider	1
14	Upskillz EduTech Pvt	2
Total Offers		55

Results

Results of Odd & Even Semester 2020-21

Results Of Odd Semester 2020-21		
Class	Total No of Students	Percentage
I Sem MCA	57	86
III Sem MCA	2	100
V Sem MCA	55	98.18

Results Of Even Semester 2020-21		
Class	Total No of Students	Percentage
II Sem MCA	57	100
IV Sem MCA	2	100
VI Sem MCA	55	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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