

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COMPSENSE



ST JOSEPH ENGINEERING COLLEGE

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi. B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

VAMANJOOR, MANGALURU - 575 028, KARNATAKA, INDIA



VISION OF THE DEPARTMENT

To be recognized as a center of excellence in computer science and allied areas with quality learning and research environment.

MISSION OF THE DEPARTMENT

- Prepare competent professionals in the field of computer science and allied fields enriched with ethical values.
- Contribute to the socio-economic development of the country by imparting quality education in computer science and information technology.
- Enhance employability through skill development.



Director's Message



It gives me immense pleasure to pen a few words for our very own newsletter of the Computer Science Department, COMPSENSE 2018 which is very exclusively meant to identify, recognize and sharpen the talent and potential that the Department so plentifully has.

The Computer Science and Engineering Department in our college has grown abundantly in the recent past. People reading this newsletter will surely see a glimpse of this tremendous change in this beautiful newsletter.

I sincerely appreciate and congratulate the editorial team and the entire department for their unrelenting efforts in compiling this newsletter.

May the Lord pour his choicest blessings on all of you!

Rev. Fr Wilfred Prakash D'Souza
Director – SJEC

Assistant Director's Message



Congratulations to the Department of Computer Science for bringing out an informative Department Newsletter. I am sure that this Newsletter carries lot of innovative works and ideas and achievements of our students and faculty. The Department is very vibrant throughout the year with lot of activities which makes students not only better professionals but also responsible citizens. This booklet is a source of inspiration for the students to build on their ideas, creativity and imagination.

Congratulations and all the best to the editorial board for this wonderful newsletter.

Rev. Fr Rohith D'Costa
Assistant Director - SJEC

Principal's Message



Recent developments in Computer science & Engineering are astoundingly surprising and demonstrating the possibilities that are believed to be humanly impossible. Today, the use of this science is found in everything that is happening around us and to name a few are; robotics, medical applications, manufacturing, space, nanotechnology, Nano robotics, communications, entertainment, media, etc., yes, the list is endless. In addition to this the voluminous data generated by various applications used around the world are posing new generation of challenges that need novel solutions. Certainly, the challenges are massive and necessitate evolution of novel solutions. Budding computer science engineers need to understand the abundant possibilities of application of this science at the same time to resolve modern day issues related to this technology.

Very well in consistency with the above, the department of Computer Science & Engineering is conducting various activities like invited talks, tech-competitions, presentations of recent developments and many more that are bringing awareness among the youngsters and inspiring them. Well, Compense is doing a good job of creating a repository of activities conducted in the department. Hope that the volume of the current year shall richly inform us about the activities of the Academic year 2018-2019. At this juncture I congratulate & thank the HOD, Faculty members and students of the department in bringing out this pleasing Newsletter.

Dr Joseph Gonsalvis
Principal - SJEC

Vice Principal's Message



The brand name of an institution depends upon the caliber and achievements of the students and faculty members. The role of a teacher has now been transformed into that of a facilitator and a mentor who has to shoulder the responsibility of nurturing the skills and abilities of the students in academic, co-curricular and extracurricular domains. It is truly impressive to note that COMPSENSE – the newsletter of the Department of Computer Science and Engineering showcases the work of our students and the contribution of our faculty. It exemplifies the spirit of the student community, their enthusiasm and creativity. Hearty congratulations to the editorial team on assorting all of these into Compense 2018.

Dr Rio D'Souza
Vice Principal and Former Head- Department of Computer Science and Engineering - SJEC

HOD's Message



The Department of Computer Science and Engineering focuses on grooming the undergraduate and post-graduate students for productive careers in industry and academia by providing an excellent atmosphere for teaching, learning, and research in the theory and applications of computing and information technology. In particular, we aim, to produce highly qualified and well-rounded graduates possessing fundamental knowledge of computing and information technology who can serve the needs of industry, government and the society. We develop strong partnerships with industrial and government agencies, professional societies, and local communities to produce highly qualified graduates who can provide leadership and service to community and the world.

Learning is a continuous process and does not end with the acquisition of a degree, especially because steady and rapid advances in computing technologies shorten the life of tools and techniques prevalent today. Therefore we do not aim to make our students walking manuals of any language or package. Instead, they are trained in the fundamentals of problem-solving techniques, and are made adaptable to changes. We believe that this approach to teaching-learning, coupled with practical experience gained during internship in reputed organizations, equips our students to handle the challenges posed by the software industry. We provide an excellent platform at individual and group level projects in design and research which, combined with classroom study, will prepare our students for the professional practice and team work. To be aware and informed about the latest research and innovation in the field of computer science and allied areas, our students and faculty have access to the full length papers of reputed conferences and journals on our unique library web portal. We instill learning as a lifelong activity to keep up with the dynamic nature of Computer Science and Engineering discipline. Above all, the entire teaching fraternity looks forward to the holistic growth of the department and they aim at doing something extraordinarily remarkable in the academic arena of Computer Science and Engineering.

I congratulate our team of faculty members and students for their brilliant and original efforts. I wish all the students and faculty a great academic career.

Dr Sridevi Saralaya

Head-Department of Computer Science and Engineering - SJEC

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PROGRAMME EDUCATIONAL OBJECTIVES (BE-CSE)

- I. To impart to students a sound foundation and ability to apply engineering fundamentals, mathematics, science and humanities necessary to formulate, analyze and design and implement engineering problems in the field of computer science.
- II. To develop in students the knowledge of computer science and engineering to work in various fields networks, data, web and system engineering.
- III. To develop in students the ability to work as part of team through effective communication on multidisciplinary projects.
- IV. To train students to have successful careers in computer and information technology industry to meet the needs of society enriched with professional ethics.
- V. To develop in students the ability to pursue higher education and engage in research through continuous learning.

PROGRAMME OUTCOMES (POs)

By the end of the undergraduate programme in CSE, graduates will be able to:

- 1) Apply knowledge of mathematics, science, engineering fundamentals, computer science and engineering to solve complex engineering problems.
- 2) Identify, formulate, research literature, and analyze complex engineering problems in reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3) Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4) Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6) Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7) Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- 8) Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9) Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10) Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
- 11) Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12) Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

By the end of the undergraduate programme in CSE, graduates will be able to:

1. Understand the principles underlying entrepreneurship, freelancing and the requirements to initiate a startup in the IT or related domains.
2. Participate effectively in competitive examinations related to certification, career growth and admission to higher studies.

DEPARTMENT ACTIVITIES

Workshop on Arduino Programming



The Department of Computer Science and Engineering in association with the SJEC Alumni association organized a two day workshop on Arduino Programming in collaboration with Design and Development Smart Labs on 19/01/18 and 20/1/18. Dr. Sridevi Saralaya, Professor and Head of CSE, welcomed Fr Rohith D'Costa, in charge Director, Dr Rio D'Souza, Vice Principal and also the resource persons Mr Claran Martis, Mr John Rodrigues. Dr Rio D'Souza

appreciated the resource persons and also the Convener Ms. Evita Coelho for organizing the event. The 1st day session began with Mr Claran giving an introduction to the Arduino microcontroller and also briefed about how to install Arduino IDE. Mr John explained the structure of Arduino program and how to write Arduino programs and its compilation. The participants successfully completed several experiments using Arduino kit, a few basic sensors and ultrasonic sensors. The second day session began with servo motor, Arduino Bluetooth module and connectivity, to use an LCD for display purposes. The participants were also introduced to temperature and humidity sensors. The resource persons briefed about their ongoing work and they suggested the forums such as instructables and Collaborizm, and also provided valuable input on what resources and study material may be looked up.

Pre-Certification Workshop for IUCEE International Engineering Education Certification Program (IIEECP)



A Three-day Pre-Certification Workshop for IUCEE International Engineering Education Certification Program (IIEECP) was organized for the faculty of Engineering Colleges by the Department of Computer Science and Engineering from March 06, 2018 to March 08, 2018. While the Certification Program (IIEECP) is designed and offered by IUCEE in 3 phases, to address the need for teaching skills and their certification, the phase-1 constituting of 3-day hands-on face-to-face workshop, was hosted in the SJEC campus. The resource person for the event was Dr Archana Mantri, Pro Vice Chancellor, Chitkara University,

Punjab, India who is one of the renowned OBE leaders and a global expert in engineering education. The workshop was formally inaugurated in the Bethania Hall at 9:00 AM. Dr Archana Mantri, graced the occasion as Chief Guest. Rev. Fr Rohit D'Costa, Assistant Director-SJEC and Dr Joseph Gonsalvis, Principal-SJEC were the Guests of Honor. Rev. Fr Wilfred Prakash D'Souza, Director-SJEC presided over the function. Dr Rio D'Souza, Vice-Principal-SJEC, Dr Sridevi Saralaya, HOD-CSE and Dr Kavitha K Mahesh, Convener were present on the dais. Chief Guest, Dr Archana Mantri in her address highlighted the course of workshop and welcomed all the faculty participants to the Pre-Certification Workshop. In his Presidential address, Rev. Fr Wilfred Prakash D'Souza, stressed the importance of teamwork and the benefits that one gets to experience in such learning platforms as the IUCEE workshops. While providing a brief overview of the objectives and motto of IIEECP, he spoke of its relevance in improving the quality in Engineering Education. Dr Kavitha Mahesh, Coordinator of the workshop proposed the vote of thanks, which marked the conclusion of the inaugural function. The Three Day

Pre-Certification Workshop comprised of three sessions on each day and 31 faculty members of SJEC and 1 from neighboring institution actively participated in workshop. The session on first day began with the introduction of the workshop learning objectives, outline and participant's expectations by the resource person. Further, Dr Archana Mantri discussed about the common classroom problems, the need to know the Millennium Learner-The Student and thereon elaborated on the Student's Learning Styles. The session enabled the participants to introspect on their personal teaching styles and further get to know on how misalignment between the students' learning styles and teacher's teaching style affect class environment. Focus of the rest of her talk was in motivating the faculty members on the need to shift from being a good teacher to a facilitator. Elements of Course planning, Design Backwards vs Backward Design were other topics addressed on first day of the workshop. Sessions on the second day focused on Reviewing Bloom's



taxonomy and engaged participants in revisiting/rewriting Course Learning Objectives. The resource person shared valuable insights with the participants on Planning Effective Instruction through mechanisms such as Promoting

active learning in regular / large classes, collaborative interventions – PBL etc. While engrossing the participants in re-planning their respective courses, the resource person illustrated the importance of choosing best pedagogical practices suiting each course. Importance of assessments and evaluation, strategies for their effective implementation were the topics of interest on the third day. Dr Archana Mantri provided inputs on class assessments and preparation of study guide. Practice Session on writing questions items – Essay Type and Multiple Choice Creating Rubric and providing constructive feedback followed. The Phase-1 of the IIEEC Pre-Certification Workshop concluded with the informal valedictory function.

Workshop on 'Machine Learning and Big data Analytics'



A two-day workshop on 'Machine Learning and Big data Analytics' was organized by the IEEE SJEC student branch and Department of Computer Science, SJEC for the students of St Joseph Engineering College on 8th & 9th of February, 2018. Dr Radhika M. Pai, Professor, Department of Information and Communication Technology, MIT Manipal and Mrs Girija Attigeri, Assistant Professor - Senior Scale, MIT Manipal were the resource persons of the workshop. Dr Radhika M. Pai with 25 years of teaching experience and expertise in pattern recognition, Big Data Analytics, Cloud Computing along

with Mrs Girija Attigeri, who has teaching experience of 12 years and skills of data science, data analytics, machine learning helped students gain knowledge on the most trending topics in Computer Science. The workshop was inaugurated in the Spoorthi Hall of Academic Block 3 at 9:00 AM. Dr Sridevi Saralaya, HOD, Department of Computer Science and Engineering, SJEC welcomed the gathering and introduced the resource persons. Dr Joseph Gonsalvis, Principal, SJEC briefed about the application of machine learning and big data analytics and how it has gained its popularity in the recent times. The Chief Guest, Dr Radhika M. Pai delivered her address by stating that machine learning and AI concepts have been in existence since the 1960's but were only recently gained popularity due to advancements in computing and hardware technologies. Rev. Fr Wilfred Prakash D'Souza, Director, SJEC addressed the gathering and inspired students to keep learning and gaining knowledge. He also appreciated the work of IEEE in conducting these kinds of workshops which helps the students to gain practical

knowledge of current technologies. The two day workshop comprised of two sessions on both the days. The resource persons shed lights on the concepts of Machine learning and its types on the first session followed by a hands-on session on R programming during the second session of first day. Various topics pertaining to machine learning were also covered, the different algorithms like K-means, regression analysis helped the students to gain better understanding about the topic. The students were challenged with a set of practical exercises based on R programming at the end of the first day. Mr Raghavendra from 3rd year CSE was the winner of the competition. On the second day, the first session focussed on understanding “Big Data” and its types and the second session enabled



the students to learn about Hadoop, a software framework for distributed processing of large datasets across large clusters of computers. Dr Radhika M. Pai also discussed about Apache Pig, Apache Hive and RHadoop. The valedictory function started

with Ms Maria Vaz of third year E&C and Mr Siddharth of third year CSE sharing their experiences of the two-day workshop and how they benefitted from it. Dr. Radhika M. Pai addressed the students congratulating them on their active participation and she hoped that the sessions had given them useful insights on the topics of machine learning and big data analytics and hoped that they would now be interested to carry out projects in these fields. Certificates of participation were distributed to the students by Dr. Pai and Ms. Attigeri.

National Conference on Smart Computing and Control, NCSCC-17



The departments of Computer Science and Engineering, Electrical and Electronics Engineering and Computer Applications of St Joseph Engineering College in association with Tata Consultancy Services – Bengaluru and Scientific and Academic Publishers – United States organized a two days National Conference on Smart Computing and Control, NCSCC-17, on 29th and 30th June 2017. The conference was attended by eminent academicians, faculty members and students from reputed technical and educational institutions from different parts of the country. The conference was inaugurated by the Chief

Guest, Dr Anirban Basu, President, Computer Society of India, on 29th June 2017. Dr Anirban Basu released the proceedings of the conference and delivered the keynote address on ‘IoT and Big Data Analytics’. In his address, Dr Basu mentioned that, with an easy access to sensors, there is more scope for IOT based projects in India. He spoke about the idea of smart cities in the Indian context and the policies put forth by the Indian Government on IOT. He also highlighted the importance of data analytics in the context of big data and the various issues in classifying and clustering big data. Rev. Fr Wilfred Prakash D’Souza, Director, St Joseph Engineering College,

Mangaluru presided over the function and appreciated the departments for taking initiation in conducting this national conference. Dr Joseph Gonsalvis, Principal, St Joseph Engineering College, Mangaluru spoke about the necessity of integrating technologies to aid research and development activities. Dr Rio D’Souza, Vice Principal and Head, Department of Computer Science and Engineering, welcomed the dignitaries and introduced the chief guest to the gathering. Prof. Sridevi Saralaya, Associate Professor, Department of Computer Science and Engineering and Conference Chair of NCSCC 2017, gave an overview

of the conference. The technical session titled Communication Network & Internet Technology was conducted on 29th June 2017 at 2 PM in Spoorthi Conference Hall, Academic Block III. The session was chaired by Dr Pushparaj Shetty D, Assistant Professor, Department of Mathematical and Computational Sciences, NITK, Surathkal and co-chaired by Ms. Sunitha Guruprasad, Assistant Professor, Department of Computer Science and Engineering, St Joseph Engineering College. Six papers were presented during the session. The paper titled 'Development of Android based application ASK results' by Ms Gopika G, Ms. K K Gayathri Ramesh, Ms Kripa M L, Ms. Likitha U B, Mr Shashidhara Kulal and Mr Alwyn Edison Mendonca of Srinivas Institute of Technology, Mangaluru won the best paper award.

The second session titled Power Electronics drives & Energy Management Systems was conducted simultaneously at Fr Fred Memorial Hall, Academic Block I. The session was chaired by Dr. Rajalakshmi Samaga B L, Professor and Head, Department of Electrical and Electronics Engineering, Canara Engineering College, Mangaluru and co-chaired by Dr Sheryl Grace Colaco, Professor and Head, Department of Electrical and Electronics Engineering, St Joseph Engineering College, Mangaluru. Ten papers were presented during this session. The paper titled 'Superlative Vehicle' by Mr Oliver Lester Saldanha, Mr Jackson Ivan D'Souza, Mr. Puneeth G Suvarna, Mr. Theju kumar JP, Ms. Sheryl Grace Colaco of St Joseph Engineering College, Mangaluru was awarded the best paper prize. The proceedings on the second day started with a tutorial on 'IoT and Smart Environments' by Dr Bighnaraj Panigrahi, Scientist, TCS Research & Innovations, Bengaluru. Dr Panigrahi in his address traced the evolution of IoT from Wireless sensor Networks and briefly presented the history of IoT, its architecture, IoT applications and networking for IoT. Dr Panigrahi also explained about the ongoing IoT related activities at TCS – Bengaluru and concluded with a video of a Smart



Home demonstrating all the applications of IoT that were explained.

The tutorial was followed by the third technical session titled 'Intelligent Systems and Knowledge Management'. The session started at 11 AM in Spoorthi Conference Hall, Academic Block III. The session was chaired by Dr Radhika M Pai, Professor Department of Information and Communication Technology, MIT, Manipal and co-chaired by Ms Sumangala, Assistant Professor and In-charge HOD, Department of Computer Applications, St Joseph Engineering College, Mangaluru. Ten presentations were made during the session and the best paper award was won by the paper titled 'Smart Cane for the visually impaired' by Mr Muriel Pinto, Ms Veena Parvathi, Ms. Sheetal Malagi, Ms Denzil Rose, Mr Ajinthajaya Kumar M K of St Joseph Engineering College, Mangaluru.

The final session on 'Smart Environments' started at 2 pm in Fr Fred Memorial Hall, Academic Block I. The session was chaired by Dr Thyagaraju G S, Professor and Head, Department of Computer Science and Engineering, SDMIT, Ujire and co-chaired by Mr. Shreenath Acharya, Assistant Professor, Department of Computer Science and Engineering, St Joseph Engineering College Mangaluru. Fourteen participants presented their papers during this session. Best paper award was won by the paper titled 'Portable Functional electrical stimulator for post-stroke: An emerging rehabilitation tool for stroke patients' by Mr Rahul V A, Mr. Subramanya K, Mr Ajithanjaya M K of St Joseph Engineering College, Mangaluru.

This conference provided a platform to all the researchers, faculty members and students across the country to share their ideas and research in the emerging fields of Smart Computing and Controls.

Workshop on “Art of Writing a Research Paper”



IEEE SJEC Student Branch & Department of Computer Science and Engineering in association with Research and Consultancy (R&C), M.I.T, Manipal, organized a one-day Workshop on “Art of Writing a Research Paper”, for the B.E Students of SJEC, on 28th March, 2018.

The Workshop included a Hands-on session and expert lectures by Dr Manohara Pai M M, Associate Director (R&C), MIT, Manipal, Dr Manjunath K N, Assistant Professor Sr Scale - Dept. of CSE, MIT, Manipal, and Dr Ujjwal Verma, Assistant Professor - Dept. of ECE, MIT, Manipal.

The formal inaugural was held at 10:30 AM, in the Spoorthi Hall of Academic Block 3. Welcoming the Chief Guest and other dignitaries, Dr Sridevi Saralaya, HOD Department of Computer Science and Engineering, explained the need for proper guidance to carry out effective research. Dr Rio D'Souza, Vice Principal, SJEC addressed the gathering and pointed out the need for quality and perfection in research papers. The Chief Guest Dr Manohara Pai M M delivered his address by stating the relevance of writing a research paper with high technical qualities. He also spoke about his love for students and how they can achieve milestones with a little encouragement. In his presidential address, Rev. Fr Wilfred Prakash D'Souza, Director, SJEC, congratulated Dr Pai, for his career and research achievements. He also appreciated the IEEE Student Branch for organizing this workshop. The first session in the morning was conducted by Dr Manohara Pai on the topics ‘Research Familiarization and its Necessity’, and ‘Technical Paper Organization Know How’. Dr Pai was

generous and expressive with his ideas, and made sure that the session was interactive. Through his knowledge and life experiences Dr Pai conveyed the importance of research in personal and professional development. Participants were also introduced to the format of writing and publishing a research paper. In the second session at 12:45 PM, Dr Manjunath K N introduced the audience to the topic ‘Publication Process of a Research Paper’. Various review processes required for scientific quality management of a paper

were described in this session. While explaining the publication process, Dr Manjunath shed light on numerous areas, including - What to publish, Where to publish, When to publish and How to publish. Dr Ujjwal Verma, in his session at 1:35 PM, dealt with the ‘Ethical Issues Faced by Researchers’ including fabrication, falsification and plagiarism. This information was new to the participants as it had more relevance in producing an appreciable high quality paper. Students were given enough opportunities to interact with the resource persons and clarify their doubts.

The afternoon session of the workshop commenced with students quiz which included topics covered in the morning sessions. The students with similar field of interests were then paired up to proceed with the hands-on session. The hands-on session involved writing a review paper on few research papers based previously shared with the participants based on their topics of interest. All the teams could actively participate in the hands-on, as they were introduced to the research papers in advance. Within 2 hours the teams could complete their review papers which were as per IEEE standards. The last session of the day was taken by Dr Manohara Pai and was focussed on the Intellectual Property Rights.

Mr Klevin from CSE dept. and Ms Shradha from ECE dept. shared their experiences in the feedback session. Dr Manohara Pai also shared his experience with the students and encouraged them to achieve more. Dr Sridevi Saralaya, HOD, CSE honoured the invitees with memento. The Workshop ended at 5:45 PM, preceded by the photo session.

DEPARTMENT ASSOCIATION ACTIVITIES – CIPHER



The Department of Computer Science & Engineering of St Joseph Engineering College inaugurated their department association CIPHER and CSI-SJEC Chapter for the academic year 2017-2018 on 18th of September 2017 at 11.00 AM, in the Kalam Auditorium, Academic block-II.

The inaugural function commenced by calling upon the college choir to invoke God's blessings through a prayer song which was then followed by a Welcome dance. A power point presentation of the Annual Report of CIPHER 2016-2017 was presented to the gathering.

Dr Udaya Kumar Reddy, Professor and Head of Department of Computer Science and Engineering, NMAMIT, Nitte was the Chief Guest of the programme. Rev. Fr Wilfred Prakash D'Souza, Director-SJEC presided over the function. Rev. Fr Rohith D'Costa, Assistant Director-SJEC and Dr Joseph Gonsalvis, Principal-SJEC were the Guests of Honour. Dr. Rio D'Souza, Vice Principal & HOD- CSE, Ms. Smitha V George, Staff Coordinator-CIPHER, Ms. Renuka Tantry, Staff coordinator-CSI, Ms Deeksha S Alva, President-CIPHER, Mr. Manjesh Guluwadi, President-CSI were also present on the dais.

Dr. Rio D'Souza, Vice Principal & HOD- CSE welcomed the dignitaries and introduced the chief guest to the gathering after which the programme was inaugurated by lighting the lamp. The chief guest inaugurated CIPHER association for the year 2017-18 innovatively by displaying the word CIPHER via an app developed by 3rd and 4th year students on a rotating LED display based on the concept of Arduino and POV which was then followed by the display of CSI plaque to symbolically inaugurate the CSI Student Chapter of SJEC. The roadmap of activities planned by

CIPHER and CSI for the current academic year was presented by Ms. Deeksha S Alva, President-CIPHER and Mr. Manjesh Guluwadi, President-CSI, respectively.

Mr. Shawn D'Souza, Secretary-CIPHER read out the names of meritorious students for their outstanding performance in the previous year and also the faculty achievers, who were then honored by Chief Guest. Students who came up with most creative masquerades and those who technically described themselves innovatively were honored too.

Principal, Dr. Joseph Gonsalvis addressed the gathering with his inspiring words and congratulated the students for securing good results each year.



The Chief Guest, Dr. Udaya Kumar Reddy, Professor and HOD-CSE, NMAMIT, Nitte encouraged the students to participate in a variety of competitions and tech-fests and procure experiential learning in the form of projects and internships. He described the importance of Computer Science as a profession.

Rev. Fr Wilfred Prakash D'Souza, Director-SJEC delivered the Presidential address wherein he motivated the students to focus on their goal and reach greater heights. The honorable Chief Guest was felicitated with a memento presented by Rev. Fr Wilfred Prakash D'Souza. The formal event concluded with the Vote of Thanks delivered by Ms Fiona Saldanha, Vice President- CIPHER, followed by the College Anthem. The inaugural was compered by Ms Lasya Hegde.

Social Responsibility - Daan Utsav 2018

CIPHER – student’s association of Computer Science and Engineering Department, AICUF and CSI associations, of St Joseph Engineering College, Mangalore took part in the Daan Utsav contest- the joy of giving week, from 2nd to 8th October 2017.

The Associations celebrated the charity week by organising a campaign of plastic free campus at St. Joseph Engineering College, Mangalore on 5th October 2017 from 10:30 AM to 12:30 PM. The activity was followed by the fund raising events organised at St Joseph Engineering college campus for next couple of days on 6th and 7th of October, 2017. A number of stalls were set up in the college campus exhibiting many fancy items for sale. Many utility items and funds were donated by the staff and students. The amount collected was about Rs.45,000 which was divided equally (Rs. 15,000/-) among the three associations. The final activity of the charity week involved a visit to Vatsalya Dhama vriddhashrama (A unit of Abhaya Ashraya) - an old age home, Kodialbail by CIPHER students, on 8th October 2017. The AICUF students visited Infant Mary’s Convent, Jeppu and the CSI students visited St. Ann’s Home for aged, Mangalore. The students spent time with the inmates and donated the amount and items collected.



DEPARTMENT ACTIVITIES – CSI CHAPTER

A talk on “Wireless Network Security and Cyber Law”



The CSI-SJEC Chapter conducted a talk on “Wireless Network Security and Cyber Law” by Mr. Gururaj H L, Assistant Professor, VVCE, Mysuru for 6th semester CSE students on 23rd April 2018 at 9.00 a.m in Spoorthi Hall, Academic block-III.

The session commenced with a welcome address by Ms. Fiona Saldanha, member of CSI association. Mr. Manjesh,

president of CSI introduced the resource person to the audience. Dr Sridevi Saralaya, HOD of CSE welcomed the resource person with a bouquet of flowers.

The resource person began the first session with an introduction on Wireless LAN. He also briefed about the different security methods, viruses, worms, Trojans and also about the SAML language.

The second session continued by giving an introduction on cyber law. The resource person discussed about the importance of knowing cyber space, cybercrime and cyber law with the students.

Mr. Raghavendra and Mr Nihal, 3rd year students expressed their opinion about the talk.

Mr. Sunil Kamath, Assistant Professor, Dept of CSE, presented a memento to the resource person for his effort. The session was concluded by thanking everyone by Ms Fiona Saldanha, member CSI association.

A hands-on session on “DB Application Development”

The CSI-SJEC Chapter conducted a hands-on session on “DB Application Development” using Java language for 5th semester CSE students on 21st August 2017 at 2.00 PM in the class room 3603, Academic block-III. The session was welcomed by Mr. Naren Bhandary, Vice-President of CSI association. Ms Pramila R M, Assistant Professor, Department of CSE was the resource person. She briefed the students with Initial installation procedure of the JDBC driver. She also explained the procedure of creating a Web Page effectively using Netbeans IDE. Moving on the procedure to create different front end and web components was explained. Further the core part of

the web application, to create Back-End Database was explained using Oracle 11g software. Finally the code to connect JDBC to Data Base was explained and connection between J2EE component and Data Base was established by all the students. All students asked many of their doubts and clarified it. Students got a useful demo on JDBC connection which is important to develop a web application. On the whole the session was interactive and the session was helpful one. Ms. Renuka Tantry, Staff Coordinator of CSI, presented a memento to the resource person for her effort. The session was concluded by Thanking everyone by Mr. Manjesh Guluwadi, President of CSI association.

TRAINING PROGRAMMES

- **Dr Kavitha Mahesh** and **Ms Sujatha M** attended a workshop titled “**Machine Learning & its applications in Engineering & Technology**” from 06th to 07th April, 2018 at MITE, Moodabidri.
- **Dr Sridevi Saralaya** attended a workshop titled “New Technology Stack for Education” on 19th March, 2018 at AIET, Moodabidri.
- **Dr Kavitha Mahesh** and **Ms Lavina DSilva** attended a workshop titled “**Cyber Security, Internet of Things and Security and Privacy Issues in Block Chain**” on 09th March, 2018 at MIT, Manipal.
- **Dr Sridevi Saralaya, Mr Shreenath Acharya, Ms Supreetha R, Ms Evita Coelho, Ms Lavina DSilva** and **Ms Anusha M M** attended an IIECP pre-certification Workshop from 06th to 08th March, 2018 at SJEC, Mangaluru.
- **Dr Sridevi Saralaya, Mr Shreenath Acharya, Ms Evita Coelho** and **Ms Anusha M M** attended a workshop titled “New Age Teaching skills” on 03rd March, 2018 at at SJEC, Mangaluru.
- **Dr Sridevi Saralaya** attended a Two Day Hands-on Training Programme on IoT from 23rd to 24th February, 2018 at NITK, Surathkal.
- **Dr Sridevi Saralaya** attended a workshop titled “Smart Campus IoT Solutions for Utility Management” from 16th to 17th February, 2018 at NITK, Surathkal.
- **Ms Sona Mundody** attended a workshop titled “Embedded Systems for IoT” from 19th to 24th February, 2018 at RVCE, Bengaluru.
- **Ms Smitha V George** attended an IEEE Hands – on Workshop titled “Machine Learning and Big Data Analytics with Hadoop” from 8th to 9th February, 2018 at SJEC, Mangaluru.
- **Ms Supreetha R** and **Ms Evita Coelho** attended an Immersive Training on “Pedagogy, Classroom Assessment and Institutionalization of Best Practices” from 29th January to 02nd February 2018 at KLETECH, Hubballi.
- **Ms Sunitha Guruprasad** attended an International Conference on “Electrical, Electronics, Computers, Communication, Mechanical and Computing 2018” from 28th to 29th January, 2018 at Priyadarshini Engg College, Vaniyambadi, Tamilnadu.
- **Ms Pramila R. M., Ms Eden Sequeira** and **Ms Kavyashree** attended a workshop titled “Android Developer Fundamentals” on from 21st to 25th January, 2018 at Alva’s Institute of Technology.
- **Ms Sujatha M** attended a workshop titled “FDP on Cryptography and cyber law” from 22nd to 24th January, 2018 at VVCE, Mysore.
- **Mr Shankarayya Shastri** attended a workshop titled “Machine Learning with Python” from 16th to 21st January, 2018 at KLE MSS CET Belagavi.

- **Dr Sridevi Saralaya, Ms Smitha V George, Mr B Sunil Kamath, Ms Supreetha R, Ms Evita Coelho, Ms Ushadevi A, Ms Lavina J D'Silva, Ms Anusha M M, Ms Sona Mundody, Ms Chaithra, Ms Pramila R. M., Ms Nisha Jenifer Roche,**



Ms Eden Sequeira and Ms Ms Kavyashree Attended a workshop titled **"Arduino Rapid Prototyping"** from 19th to 20th January, 2018 at SJEC, Mangaluru.

- **Mr Shreenath Acharya** attended a workshop titled **"Machine Learning & its applications in Engineering & Technology"** from 2nd to 6th January, 2018 at NMAMIT, Nitte.
- **Ms Sunitha Guruprasad** attended the 3rd International Conference on **"Applied and Theoretical Computing and Communication Technology"** from 21st to 23rd December, 2017 at SIT, Tumkur.
- **Ms Supriya Salian and Ms Kavyashree** attended a Faculty enablement program on "Internet of things" from 18th to 22nd December, 2017 at NMAMIT, Nitte.
- **Ms Vijetha U and Ms Aparna K** attended a workshop titled **"Algorithmic Foundations of WSNs with Applications"** from 10th to 14th December, 2017 at NITK, Surathkal.
- **Ms Smitha V George, Ms Supreetha R and Ms Ushadevi A** attended a Faculty Development Programme titled "Cryptanalysis: Tools & Techniques" from 04th to 08th December, 2017 at NITK, Surathkal.
- **Ms Michelle Rosario** attended a Workshop titled "GIAN course on Mathematical Methods for Image Processing" from 23rd to 27th October, 2017 at NITK, Surathkal.
- **Ms Ushadevi A** attended "Train the Trainer Program on Mobile App Development with Android" from 25th to 27th September, 2017 at St. Aloysius Institute of Management and Information Technology (AIMIT).

- **Ms Sona Mundody** attended a workshop titled "Computer Network Programming in JAVA and Network Simulator – 2 (NS2)" from 10th to 13th August, 2017 at SJBIT, Bengaluru.

- **Mr Shreenath Acharya** attended a workshop titled "Computational Swarm Intelligence: Algorithms

& Applications" from 11th to 12th August 2017 at Ramaih University of Applied Sciences, Bengaluru.

- **Ms Sunitha Guruprasad** attended a workshop titled "Effective Research: Proposals, Investigations and Publications" 11th August 2017 at SJEC, Mangaluru.
- **Ms Anusha M M and Ms Chaithra** attended a workshop titled "Database Application Development using Java, PHP, Python" from 2nd to 3rd August, 2017 at RNSIT, Bangalore.
- **Dr Kavitha Mahesh** participated in Faculty Development Program organized by the Department of Mathematics, St Joseph Engineering College, Mangaluru on 4th August 2017.
- **Ms Renuka** has attended a workshop titled "Computer Network Programming in JAVA and Network Simulator – 2 (NS2)" from 10th to 13th August, 2017 at SJBIT, Bengaluru.
- **Dr Sridevi Saralaya, Ms Evita Coelho, Ms Lavina D'Silva and Ms Nisha Roche** attended a workshop titled "IOT and its Applications in Electrical Systems" from 14th to 15th July, 2017 at NITK, Surathkal.



TIARA 2018

PAPYRUS



The event Papyrus was the first event organized by the Department of Computer Science and Engineering. It was perfectly coordinated by respective faculty, Ms Sujata M and Mr Sunil Kamath. Along with them, there were a few dedicated student coordinators- Ashwitha Dantus, Aishwarya Kulkarni who spearheaded the event. The judges for this event were Ms Ushadevi M from the Department of Computer Science, SJEC and Mr Rajesh Raju from the Department of Computer Applications, SJEC who whole heartedly judged this event. Each team had to explain about their innovative topics and research material. Overall the event brought in a trunk full of knowledge which was presented in a systematic manner.

Exodia(Mega Event)

EXODIA was a mega event conducted by the Department of Computer Science & Engineering. It turned out to be an unstoppable and thrilling experience for all students



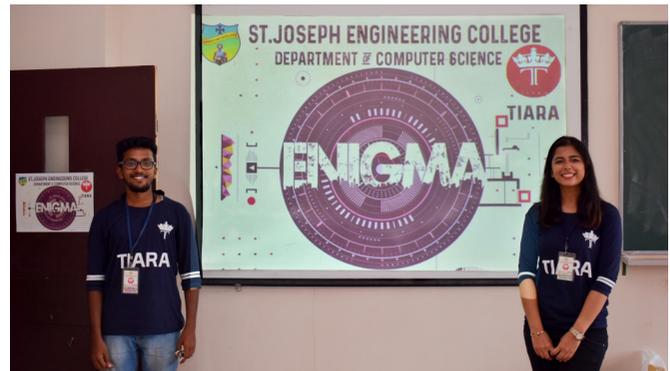
who took part in the event. It was marvelously coordinated by Ms Supreetha R and Ms Nisha Cutinho. The student

coordinators were Ms Naidile Shetty and Ms Prathika Suvarna along with a number of volunteers who helped in the smooth functioning of the event.

The first two rounds were conducted on the first day of Tiara and the remaining two rounds were conducted on the second day.

ENIGMA

ENIGMA was the technical event organized by the Department of Computer Science & Engineering. The event comprised of 3 rounds which were conducted on the



second day of Tiara. The event was well organized by the staff coordinators: Ms Sunitha Guruprasad and Ms Pramila M. The student coordinators were Ms Tanya Navas and Mr Shreyas Shet. A total of 40 teams participated with 2 members in each team.

BLACK HAWKS

BLACK HAWKS was a semi technical event organized by the Department of Computer Science. The event comprised of 3 rounds, of which 2 rounds were completed on the first day of Tiara, while the last round was on the second day.

The event was well organized by the staff coordinators: Mr Gerald Fernandes and Ms Gayana M N. Along with them we had our dedicated student coordinators: Mr Naren B and Mr Manjesh G. All the participants were in full enthusiasm and curiosity as each round had a hidden surprise element. A total of 77 teams participated in this event, with each team consisting of 3 members.

COUNTER STRIKE

The event Counter Strike was organized by the Department of Computer Science and Engineering on the first day of Tiara-2018. It was well coordinated by Mr Prathviraj N and Ms Smitha V George. Along with them, a number of student coordinators and volunteers were present at the event. Mr Anoop Kumar and Mr Cleevan Cardoza spearheaded the team of student coordinators.

Each team consisted of 5 members who actively participated and in turn enhanced their gaming skills.



ALUMNI INTERACTION

The SJEC Alumni association organized an inspirational talk for students on 04 November 2017 at 11.00 AM in the Spoorthi conference room. Our alumni Ms Madhura Bharadwaj graduated in the year 2015 from the department of Computer Science and Engineering was the speaker of the day. Ms Bharadwaj is working with Microsoft India as Azure Cloud support Engineer. Ms Bharadwaj was the first to be recognized as the 'Power Player' among all peers in the Microsoft Academy for Campus Hires (MACH) and was twice awarded with the prestigious 'Microsoft ACE' (Architects of Excellence) in the 'Star Performer' and 'Star Team' categories for significant contribution towards achieving Microsoft Cloud Business targets.

The event began with a short inaugural where Ms Madhura was felicitated by the management for her remarkable achievements. Ms Madhura Bharadwaj then spoke to the students on how to focus and set early goals and how to plan a path to execute them. She emphasized on building a brand for oneself and also motivated students by telling them how putting in adequate effort will help them master any skill. The talk was very well received by the students who were greatly inspired by her. The talk concluded with a QA session.



TECHNOVA 2018

A Final Year Project Exhibition cum Competition for academic year 2017-2018

The Department of Computer Science and Engineering organized a project exhibition cum competition for the final year student projects under the banner "TECHNOVA 2018", on 18 May 2018. 36 teams consisting of 4 members in each team participated in this event.

The panel of judges consisted of a team of external and internal judges. The four external judges were Dr Geetha Maiya (Professor of CSE dept., MIT, Manipal), Dr Pushparaj Shetty (Assistant Professor of Mathematics & Computational Science dept., NITK, Surathkal), Mr Gopalakrishna Bhat Kakunje (Director, Kakunje Software Pvt Ltd ,Mangaluru) and Mr Vishal Archie Rego (Entrepreneur, Mangaluru). We also had a team of internal judges namely Ms Sunitha Guruprasad (Assistant professor, CSE, SJEC), Ms Smitha V George (Assistant professor, CSE, SJEC) and Ms Usha Devi (Assistant professor, CSE, SJEC) and Mr Sunil Kamath (Assistant professor, CSE, SJEC).

Among the 36 teams who participated 6 teams were shortlisted for the final round of evaluation. The first prize was bagged by the project titled "Virtual Mirror" by Mr Mohammed Awsaf Ali, Mr. Ranjith Kumar B, Ms Prithvi V & Ms S. Dhanashree under the guidance of Ms Nisha Roche (Assistant professor, CSE, SJEC). The second prize was bagged by the project titled "Burrow" by Ms Trinita Lasrado, Ms Tanya Navas, Ms Pearl D'Souza and Ms. Shreeraksha A under the guidance of Ms Lavina D'Silva (Assistant professor, CSE, SJEC). The award for the most innovative project went to the project titled "Android based smart bus occupancy system" by Mr Calvin Menezes, Ms Dale Helen Menezes, Ms Michelle Triyek Serrao and Ms Jane Mishal Monteiro under the guidance of Mr Prathviraj N (Assistant professor, CSE, SJEC).

The event concluded with a Valedictory function at 1:00 PM. A few Parents of our students and the 2nd year and 3rd year students also came to see the projects.



INDUSTRY INTERNSHIPS FOR THE YEAR 2015-2018

SI No.	Participating students	Training Schedule	Details of the Company
1.	Aswathi Suseelan	10/01/2018 to 29/01/2018	Eyecatcher, Mumbai
2.	Prajna	December 2017 to February 2018	Hasura, Bangalore
3.	Pratibha Mohandas	December 2017 to February 2018	Hasura, Bangalore
4.	Swathi A Shetty	8/1/2018 to 8/2/2018	Hewlett Packard Enterprise Delivery center, Mangaluru
5.	Asha B	8/1/2018 to 8/2/2018	Hewlett Packard Enterprise Delivery center, Mangaluru
6.	Atton L Rasquinha	16/1/2017 to 21/1/2017	MRPL, Mangaluru
7.	Rachel Sharon Cutinha	16/1/2018 to 30/1/2018	MRPL, Mangaluru
8.	Praneetha P Anchan	16/1/2018 to 30/1/2018	MRPL, Mangaluru
9.	Prajwal P Antony Dcunna	11/7/2016 to 16/7/2017	BSNL Telecom training Centre, Mangaluru
10.	Pearl Alisha Lobo	9/1/2017 to 13/1/2017	BSNL Telecom training Centre, Mangaluru
11.	Nelson Pinto	7/1 2018 to 21/1/2018	Flicker Infotech, Mangaluru
12.	Priya Renita Crasta	7/1/2018 to 18/1/2018	Burgan Bank
13.	Naren Bhandary	8/1/2018 to 24/1/2018	Ancit Consulting, Coimbatore
14.	Reuben Siqueira	8/1/2018 to 22/1/2018	Third Eye Technologies, Goa
15.	Poojitha R	15/1/2018 to 3/3/2018	Robotics R&D Center, Mangaluru
16.	Atton Lawrence Rasquinha	8/01/2018 to 25/1/2018	Kukunje Software Private Limited, Mangaluru
17.	Prajwal Preciwal Anthony Dcunha	1/11/2017 to 26/2/2018	Softrixz, Mangaluru
18.	Raghavendra Bhat	7/1/2018 to 21/1/2018	Flicker Infotech, Mangaluru
19.	Asha S	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
20.	Divyanjalin Akanksha Soans	29/7/2017 to 5/8/2017	Expertshub Skill Development center, JSSATE Bengaluru
21.	Greshal Shalma Cutinha	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
22.	Shalini R	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
23.	Sasha Rodrigues	29/7/2017 to 5/8/2017	Expertshub Skill Development center, JSSATE Bengaluru
24.	Tejas D	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
25.	Mohammed Shaheed	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
26.	Pranav Bhat	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru

27.	Deepaklal Sharma G	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
28.	Alfrida Melisha Ferrao	29/7/2017 to 5/8/2017	Expertshub Skill Development center, JSSATE Bengaluru
29.	Deekshitha	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
30.	Sabeetha Rachel Nazreth	29/7/2017 to 5/8/2017	Expertshub Skill Development center, JSSATE Bengaluru
31.	Janet Noronha	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
32.	Dynita Jasmine Pinto	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
33.	Siddharth N	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
34.	Shiji Thomas	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
35.	Sushma S	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
36.	Anitha	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
37.	Chithra	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
38.	Dhanyashree K M	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
39.	Suraksha Nayak K	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
40.	Rishal Suvaes	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
41.	Reeshal Roylin D'souza	29/7/2017 to 5/8/2017	Expertshub Skill Development center, JSSATE Bengaluru
42.	Harshitha N	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
43.	Nikhitha	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
44.	Sahana M Angadi	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
45.	Yuktha Raman G V	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
46.	Christal Lobo	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
47.	Chaitha Shindi	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
48.	Ananya P S	23/1/2018 to 30/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
49.	Shreya R K	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru

50.	Lloyd Fernandes	14/7/2016 to 21/7/2016	Expertshub Skill Development center, JSSATE Bengaluru
51.	Rochelle Hannah	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
52.	D K Trishala	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
53.	Fathima Nafha G I	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
54.	Divya K	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
55.	Ananya Rai	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
56.	Ashwathi Thalappan	13/1/2018 to 20/1/2018	Expertshub Skill Development center, JSSATE Bengaluru
57.	Nikitha s	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
58.	Kavana L	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
59.	M Vibha Menon	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
60.	Niha P	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
61.	Nidhi S Taggarse	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
62.	Amulya Kini	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
63.	Ankhitha H Kamath	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
64.	Apeksha	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
65.	Athul Vittal Prabhu G	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
66.	Pearl Alisha Lobo	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
67.	Niha P	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
68.	Kavana L	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
69.	Nikitha S	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
70.	Jeevitha B U	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
71.	Lalitha K Moger	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru
72.	M Vibha Menon	6/1/2018 to 20/1/2018	Trinix technologies private limited, Mangaluru

ACHIEVEMENTS

National/ International Publications:

- **Ms Nisha Jenifer Roche** Assistant Professor, Dept of CSE, published a paper titled “Loan Assist” in American Journal of Intelligent Systems.
- **Ms Sujatha M** Assistant Professor, Dept of CSE, published a paper titled “Extraction of person body using Appearance and Feature based Alogithm” in American Journal of Intelligent Systems, Vol. 7 No. 3, 2017, pp. 47-49. doi: 10.5923/j.ajis.20170703.01.
- **Ms Supreetha R** Assistant Professor, Dept of CSE, published a paper titled “Protection of Password using Distributed Clustered Division and Encryption” in the journal Advances in Computing 2017, 7(2): 23-27.
- **Ms Supreetha R** Assistant Professor, Dept of CSE, published a paper titled “Connectify- A Social Networking Website” in the journal Advances in Computing 2017, 7(2): 35-39.
- **Ms Supriya Salian** Assistant Professor, Dept of CSE, published a paper titled “Overlapping slicing- a method for privacy preservation in medical applications” in the journal IJSRSET | Volume 3 | Issue 5 | Print ISSN: 2395-1990 | Online ISSN: 2394-4099, 27 July- 2017, [(3)5: 254-258].
- **Ms Ushadevi A** Assistant Professor, Dept of CSE, published a paper titled “Converting and Deploying an Unstructured Data using Pattern Matching” in the journal American Journal of Intelligent Systems 2017, 7(3): 54-59.
- **Ms Ushadevi A** Assistant Professor, Dept of CSE, published a paper titled “Advanced Baby Monitor” in the journal International Journal of Internet of Things 2017, 6(2): 51-55.
- **Ms Ushadevi A** Assistant Professor, Dept of CSE, published a paper titled “Smart Key: Secure Door Lock System using NFC Enabled Smartphone” in the journal International Journal of Internet of Things 2017, 6(2): 67-70.
- **Ms Ushadevi A** Assistant Professor, Dept of CSE, published a paper titled “Smart Key: Secure Door Lock System using NFC Enabled Smartphone” in the journal International Journal of Internet of Things 2017, 6(2): 67-70.
- **Mr Shreenath Acharya** Assistant Professor, Dept of CSE, published a paper titled “Search Buddy: A Search Engine for Physical Objects” in the journal International Journal of Internet of Things 2017, 6(2), 78-82.
- **Mr Shreenath Acharya** Assistant Professor, Dept of CSE, published a paper titled “Policy for Resource Allocation in Cloud Computing” in the American Journal of Intelligent Systems 2017; 7(3): 95-99.
- **Ms Smitha V George** Assistant Professor, Dept of CSE, published a paper titled “Student Authentication and Verification System using Barcode Scanner” in the journal International Journal of Internet of Things 2017; 6(2): 71-74 doi:10.5923/j.ijit.20170602.13.
- **Ms Smitha V George** Assistant Professor, Dept of CSE, published a paper titled “Sous Chef - A Smart Way to Search for Recipes” in the journal American Journal of Intelligent Systems pp. 86-89 DOI: 10.5923/j.ajis.2017.
- **Ms Smitha V George** Assistant Professor, Dept of CSE, published a paper titled “Passive Disclosure of Hidden Traffic Patterns in Ad-Hoc Networks” in the journal International Journal of Innovations & Advancement in Computer Science IJIACS ISSN 2347 – 8616 Volume 6, Issue 9 September 2017.
- **Dr Sridevi Saralaya** Professor, Dept of CSE, published a paper titled “Multi Keyword Search over Encrypted Cloud” in the journal Advances in Computing 7 (2), 58-61.
- **Dr Sridevi Saralaya** was awarded with IEEE Senior Membership in the month of October 2017.
- **Dr Sridevi Saralaya** is awarded Fellow of Instituion of Engineers in the month of February 2018.



Dr Sridevi Saralaya, Associate Professor, Department of Computer Science & Engineering has been awarded the Degree of Doctor of Philosophy for her thesis titled “An Architecture for Dynamic Cross-Layer Monitoring and Adaptation of Service-Based Applications” on 27th November 2017 by Visvesvaraya Technological University, Belgaum. Dr Sridevi was guided by Dr Rio D’Souza, Professor & Principal in the research centre of St Joseph Engineering College, Vamanjoor, Mangaluru.



KSCST funded project

The project titled “Virtual Mirror-A hassle free approach to the use of trial room” by **Mr Ranjith Kumar**, **Mr Mohammed Awsaf**, **Ms Dhanashree** and **Ms Pruthvi V** guided by **Ms Nisha Roche**, Assistant Professor, Dept of CSE has been sanctioned a grant amount of Rs 6000/- by KSCST.

Campus Connect Awards

- **Dr Sridevi Saralaya**, Associate Professor, Dept of CSE is recognized as Bronze Partner faculty under Inspire – The Campus Connect faculty partnership model.
- **Mr Prathviraj N**, Assistant Professor, Dept of CSE is recognized as Bronze Partner faculty under Inspire – The Campus Connect faculty partnership model.
- **Ms Supriya Salian**, Assistant Professor, Dept of CSE is recognized as Silver Partner faculty under Inspire – The Campus Connect faculty partnership model.



Invited as a guest / resource person:

- **Mr B Sunil Kamath**, Assistant Professor, CSE delivered a technical lecture on “Effective Exposition of Project work Through Posters” on 9 May 2017 at SJEC.
- **Ms Pramila R. M**, Assistant Professor, CSE delivered a technical lecture on “Database Application Development” on 20 October 2017 at SJEC.
- **Dr Sridevi Saralaya**, Professor, CSE delivered a technical lecture on “How to Write an IEEE Research Paper” on 23 September 2017 at SJEC.

Academic Services:

Dr Kavitha Mahesh served as reviewer for papers submitted to 12th Women in Machine Learning Workshop (WiML) 2017, held in Long Beach, California on December 4th & December 7th, 2017.

Online courses:

- **Dr Sridevi Saralaya** has successfully completed the courses on “Transparency in peer review”, “Funding Hacks for Researchers”, “10 tips to write a truly terrible

review”, “Make a career in Research” and “How do editors look at your paper” offered by Elsevier Publishing Campus, an open online training and advice center.

- **Ms Smitha V George** has successfully completed the courses on “Introduction to Internet of things” and “Cryptography and Network Security” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Supriya Salian** has successfully completed the course on “Introduction to Internet of things” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Gayana M N** has successfully completed the courses on “Introduction to Internet of things” and “Cryptography and Network Security” offered by IIT Kharagpur through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.

- **Ms Gayana M N** has successfully completed the course on “Programming, Data structures and Algorithms using Python” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Sujatha M** has successfully completed the course on “Cryptography and Network Security” offered by IIT Kharagpur through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Renuka Tantry** has successfully completed the course on “Cryptography and Network Security” offered by IIT Kharagpur through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Supreetha R** has successfully completed the courses on “Introduction to Internet of things” and “Cryptography and Network Security” offered by IIT Kharagpur through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Nisha Jenifer Roche** has successfully completed the course on “Mobile Application Development” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Supreetha** has successfully completed the course on “Programming, Data structures and Algorithms using Python” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Ushadevi A** has successfully completed the courses on “Introduction to Internet of things” and “Cryptography and Network Security” offered by IIT Kharagpur through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Ushadevi A** has successfully completed the course on “Programming, Data structures and Algorithms using Python” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Evita Coelho** has successfully completed the courses on “Programming for everybody” and “Python Data Structures” offered University of Michigan through Coursera, an online learning platform partnering with top universities and organizations worldwide.
- **Ms Lavina Jean D’Silva** has successfully completed the course on “Introduction to Internet of things” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.
- **Ms Chaithra** has successfully completed the course on “Programming, Data structures and Algorithms using Python” offered by IIT Madras through NPTEL (National Programme on Technology Enhanced Learning), a joint initiative of the IITs and IISc.

OUTGOING BATCH 2017-2018



IV Year, Section A



IV Year, Section B

TOPPERS

IV YEAR BE-CSE



RASHMI J NAYAK



ATHIYA MARIUM



PEARL DSOUZA

III YEAR BE-CSE



LOVISTA DSOUZA



REEMA PRATHEEKSHA



DEEPTHI NAYAK D

II YEAR BE-CSE



DEEKSHITHA RAO



JOSLIN D'CUNHA



NIHA P

MTECH I YEAR



PRENITHA LOBO

ALUMNI MESSAGE

One of the most interesting stages in life that gives you an opportunity to explore is the 'college phase'. I was just like every other student who joined SJEC with the dream of being an Engineer. My experience at SJEC has taught me one fundamental thing – life is unpredictable. It might be good, it might be bad, it might be weird, and it might not interest you, but expect anything to happen. It is a perfect blend of joy and hardship.

Pursuing Computer Science Engineering at SJEC has not only made me academically proficient but also industry ready. My journey of 4 years has taught me how to value life, how to look into weaknesses and grow as an individual, how to respect others and how to face challenges in life. It was not just about academics there were so many opportunities given to cultural activities as well, which played an important role to meet different people, to interact with them, to learn about their cultures and grow as a person. You will understand how to talk to different people, how to judge their behaviour, thus helping you with important life skills.

The enhancement of productivity, creativity and knowledge would never have been possible without our HOD, Dr Sridevi Saralaya who supported us throughout our semesters and our project in the fourth year and also are beloved highly skilled teachers who made sure we understood everything they taught us and helped us grow by expanding our mental horizon.

I will always love my dear alma mater and pray that god continues to pour his blessings over it. An advice to my juniors – eventually, everything will fall into place. Until then laugh at the confusion, live for the moment and know that everything happens for a reason.

Ms Prathika Suvarna

8th Sem CSE

SIGNOUT - 2018

The Department of Computer Science along with the students of 3rd year organized the farewell ceremony SignOut-2018 for the outgoing students of 2014-2018 batch under the guidance of Ms Ushadevi, Asst Professor. The program was scheduled on 11 May, 2018 at Bishop Aloysius Hall, 2nd Floor, Academic Block-II from 1:30 PM-4:30 PM. The program began with a prayer song led by Mr Carlton Rodrigues and group. The gathering was welcomed by Ms Pragathi from 3rd year.

Assistant Professor Ms Evita Coelho raised the toast on behalf of the department. On behalf of the students of 3rd year, Ms Joslin D'Cunha raised the toast, which was later replied by Ms Deeksha Alva from the 4th year.

The mementos were distributed to the outgoing students from the Department of Computer Science. Ms Deekshitha took charge as the Master of Ceremony. The vote of thanks was proposed by Ms Vaishnavi Naik of 3rd year. The formal function ended with the College Anthem.

The informal function began with a video that reminded the 4th year students about the memories they made in the last 4 years. The informal function was mastered by Mr Preston Sequeira and Ms Priya Crasta from 3rd year. Various amusing games were conducted for the outgoing students. The students of 3rd and 4th year entertained the audience with various dance and song performances. Meanwhile refreshments were served.



ST JOSEPH ENGINEERING COLLEGE

