ABHIYAANA 2020





ST JOSEPH ENGINEERING COLLEGE

Vamanjoor, Mangaluru - 575028, Karnataka, India

VISION, MISSION & MOTTO

MOTTO

Service & Excellence

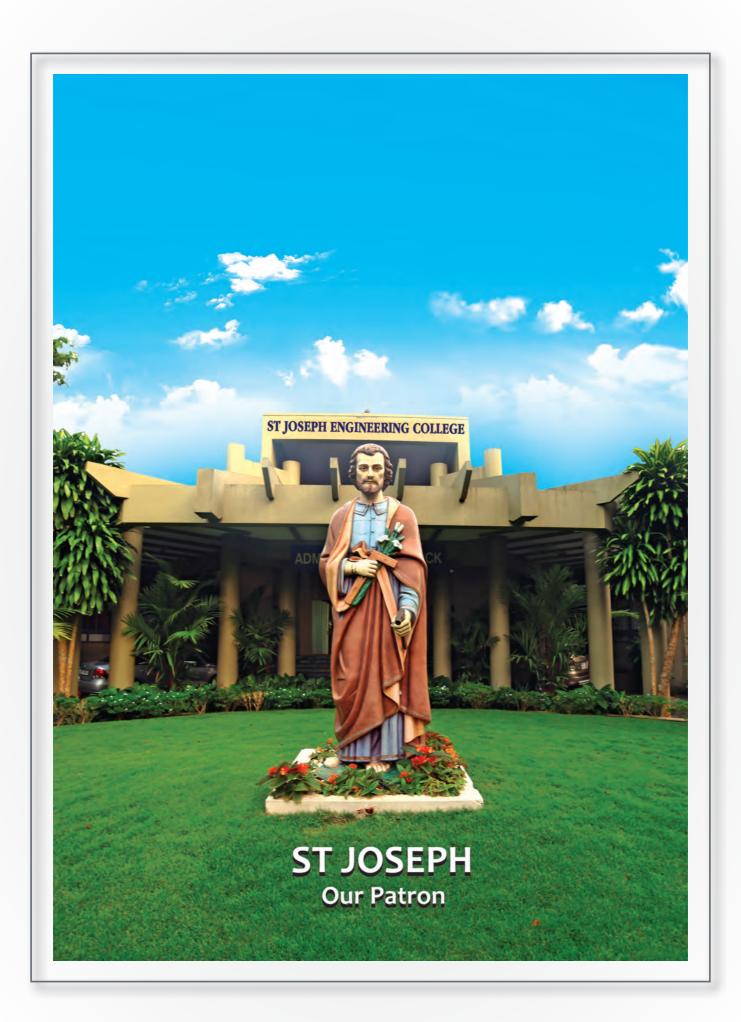
VISION

To be a global premier Institution of professional education and research.

MISSION

- Provide opportunities to deserving students of all communities, the Christian students in particular for quality professional education.
- Design and deliver curricula to meet the national and global changing needs through student-centric learning methodologies.
- Attract, nurture and retain the best faculty and technical manpower.
- Consolidate the state-of-art infrastructure and equipment for teaching and research activities.
- Promote all round personality development of the students through interaction with alumni, academia and industry.
- Strengthen the Educational Social Responsibilities (ESR) of the institution.





PRESIDENT'S Message

With immense joy and happiness, I send this message to the 'Abhiyaana 2020' the annual college magazine of St Joseph Engineering College, Vamanjoor, Mangaluru. I take pride in congratulating the management, staff fraternity, and student community responsible for contributing to the growth of St Joseph Engineering College.

The COVID - 19 crisis which hit us out of nowhere in the month of March 2020 drastically changed the way we work, learn, communicate, and socialize and left us with the challenge of making significant changes in a matter of days on an extraordinary scale. The entire education community was affected and most of the schools and colleges were closed indefinitely. I am aware that SJEC, with its vision of continuous improvement in the teaching-learning process, was prepared well in advance and online classes commenced within a few days after the lockdown was announced.

Here I would like to congratulate and pray for God's abundant blessings on the Faculty of SJEC. They during the crisis did not let their students down and continued teaching effectively in online mode. Along with COVID warriors, teachers too, have taken the forefront during the pandemic. And despite the shortcomings, they journeyed the extra mile for knowledge, taking it in their stride to bridge the gap between education and its limitations.

I am delighted to know that a group of teaching faculty from SJEC visited various schools and colleges in and around Dakshina Kannada and Udupi and trained more than 400 teachers to become effective online teachers. This shows the true spirit of SJEC with the motto of 'Service and Excellence'.

Let each of you look not only to his own interests, but also to the interests of others. - Philippians 2:4

In this time of crisis, let us not forget the service that we have to offer to our family, community, and nation.

Continue your cooperation and commitment towards the growth of this college to greater heights. May St Joseph our patron continue to bless you all.

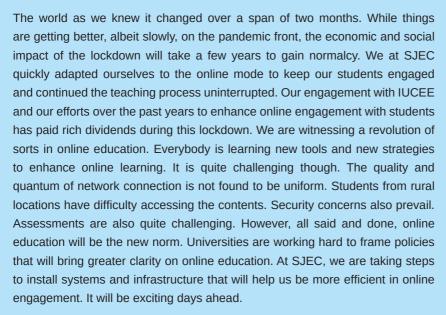
Rev. Dr Peter Paul Saldanha
Bishop of Mangalore

DIRECTOR'S Message

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Dear Readers

As I write this, mankind is experiencing one of the most severe outbreaks of pandemic the world has ever witnessed. COVID-19 came into our world and made us realize the utter fragility of life. Nature often sends us these reminders. Don't we at times consider ourselves too powerful? Too important? All those who fight, kill, and discriminate in the name of religion, caste, race, power etc., today find themselves at the mercy of the kind-hearted nurses and doctors to save them. There are always lessons to learn from great tragedies such as this. I wish we will learn ours and live with greater love and kindness; knowing fully well that it only takes a small virus to end our arrogance.



Amidst all these, we still managed to reflect upon the past year and bring out another issue of Abhiyaana, our College Magazine. I commend the Editors, Editorial team, and all contributors of articles for their dedication and committed work. The creativity and talent that we have at SJEC continues to amaze me. I wish all our readers good health and safety. May God help us all in overcoming this calamity and come out as better human beings.

Happy reading!



Rev. Fr Wilfred Prakash D'Souza

Director

ASST. DIRECTOR'S Message

"Abhiyaana" is a platform for our students to showcase their creative skills, concealed dreams and ambitions for writing. The platform identifies the writing talent of students, shapes their imaginations and publishes their works of art.

We wish to provide our students a holistic learning experience for life. We want to help students create a world of ideas they believe in. Our goal is to teach students to be good humans. So when they leave the care of their teachers, they will be equipped with confidence to influence minds with positivity. A lot of us think of creating master pieces at the first attempt, however, very few of us end up doing so.

At "Abhiyaana" we believe in creating master pieces one page at a time. Our students learn by writing one page at a time. Abhiyaana is a wonderful blend of knowledge, talent and people.

The student's ideas and capabilities will be revealed through this magazine. Seeing their works published in this magazine will encourage students to write more, one page at a time.

It gives me great pleasure to acknowledge the efforts of the members of Abhiyaana editorial team. Their unwavering commitment shows in the form of masterpiece "Abhiyaana 2020". I would also like to thank the staff and students for their contributions to bring out "Abhiyaana 2020".

Rev. Fr Rohith D'Costa

Asst Director



ASST. DIRECTOR'S Message

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St Joseph Engineering College is a renowned and esteemed Institution and I feel extremely happy and fortunate to be part of this magnificent educational institution. I gratefully acknowledge the yeoman service of the Editorial team in bringing out this magazine. The contributions of each of these talented individuals are immeasurable.

I remember the words of Benjamin Disraeli, "Nurture your mind with great thoughts, for you will never go any higher than you think." Indeed we need better education to have better thoughts, to be better humans to build a better society. I am very pleased to bring to your notice St. Joseph Engineering College fraternity which provides ample opportunities along with a value based wholesome quality education to nurture the inner potential of every youngster. I wish and pray that everyday be a special day for every person who enters the portals of this great institution, with a heart and mind set to grow more than yesterday.

The virus has encouraged all of us to gain a finely tuned self-awareness. I am sure all of us have been practising social and physical distancing and coming together on social media for reciprocal morale boosting exchange and sharing.

Stay home, stay safe.

Rev. Fr Alwyn Richard D'Souza

Asst Director



PRINCIPAL'S Message

"Networking is a lot like nutrition and fitness: we know what to do, the hard part is making it a top priority" said Herminia Ibarra. During the last year we decided to do the hard part. The theme for the year was Networking – connecting with alumni, industry and the community. While in normal times networking is not as easy as it sounds, during COVID times it was even harder. But, as with all things that emanate from nature, challenges come with opportunities. The year saw our staff and students leverage technology to bridge the chasms of distance and time. In the virtual world, lockdowns melted and pandemics were relegated to the background.

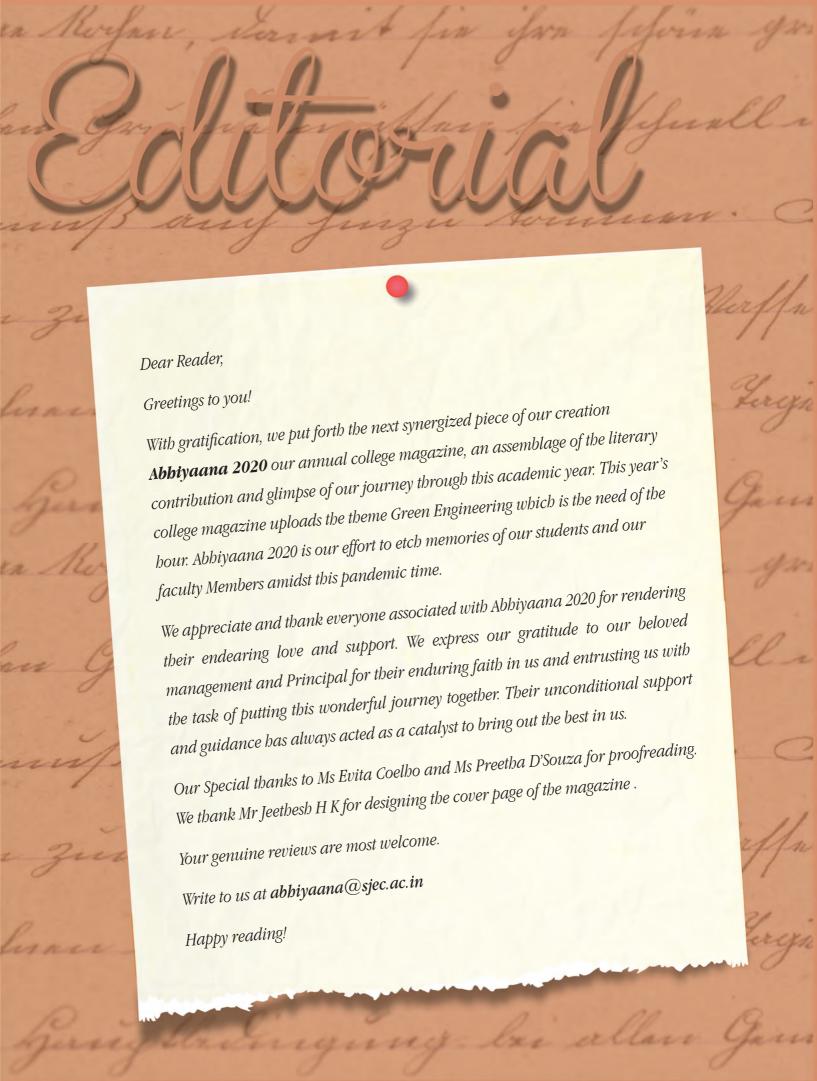
Yes, somewhere we were forced to do some intense soul searching, looking for answers to the conundrums that defined our existence in COVID times. Yet, success stories abound! A team of our faculty went around training teachers in high schools, junior colleges and degree colleges, in and around Mangaluru, on online tools for teaching and learning. We had a head-start in such technologies due to the focus on our campus on the use of technology to make learning more accessible and the international certification that our teachers have been undergoing on pedagogies for engineering education. During June and July 2020, we were able to train about 600 teachers from 30 educational institutes, free of charge, on how to reach out to students using digital tools and the internet. The impact of this initiative is yet to be measured, but going by initial reactions, we can say it has definitely helped the teachers and students of these educational institutions in a big way.

The other transformation we saw was the way in which our students and staff embraced technology to network with industry, alumni and academicians across the world. About 100 webinars were organized, besides other online events such as Research Conclave, Alumni Meet, etc. Thus, the pandemic and lockdown actually helped us improve our outreach among our stakeholders and experts across the world. Also, all the staff and students were enriched by the numerous online courses which were offered free-of-cost by many premier service providers.

While the way forward is still not very clear, signs of return to normalcy are bringing up new opportunities to meet the students' aspirations. We have applied for autonomy and this will bring in new venues for making learning more impactful on the campus. With fresh vigor in our veins and burgeoning hope in our hearts, we look forward to yet another fruitful academic year.

With best wishes to the editorial team of Abhiyaana 2020.

Dr Rio D'Souza Principal



SJEC AT A GLANCE 13 TRAINING & PLACEMENT 15 **COMPUTER SCIENCE & ENGINEERING** 24 ELECTRONICS & COMMUNICATION **ENGINEERING** 34 **ELECTRICAL & ELECTRONICS ENGINEERING** MECHANICAL 38 ENGINEERING CIVIL **ENGINEERING** 55 PHYSICS 58 CHEMISTRY 6 MATHEMATICS

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SJEC GRADUANDS-2020

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SJEC is affiliated to Visvesvaraya Technological University, Belagavi, in the State of Karnataka and is recognized by the All India Council for Technical Education (AICTE), New Delhi, India. B.E (CSE, ECE, EEE & ME) programmes are re-accredited for three years (2019 to 2022) by the National Board of Accreditation, New Delhi.

SJEC established in the year 2002, offers top-class education in Engineering, Business administration and Computer Applications at UG, PG and Research levels. It has well qualified Staff, state-of-the-art Laboratories and required facilities. Presently, about 2350 students are studying in the College.

GOVERNING BOARD

Most Rev. Dr Peter Paul Saldanha, Bishop of Mangalore, President - SJEC

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Mr Felix Albuquerque, Entrepreneur

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Rev. Fr Rohith D'Costa, Assistant Director

Rev. Fr Alwyn Richard D'Souza, Assistant Director

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Rev. Fr Wilfred P D'Souza, Director, St Joseph Engineering College

Dr Rio D'Souza, Secretary & Principal, St Joseph Engineering College

Dr Vincent Crasta, HOD-Physics, St Joseph Engineering College

Prof. Lionel Aranha, Chartered Accountant / Advocate

Fr Praveen Martis, Academician

Mr Jeevan Saldanha, Industrialist

Ms Ivy Saldanha, Industrialist

Dr Venkatesh, Principal, Government Engineering College, Kushalnagar



Message from the Placement Officer

Dreams are extremely important. You can't do it unless you imagine it." —George Lucas

Industry expectations are changing widely every day. With Pandemic few skills have become utmost important in everyone's life. Students start a new chapter of their life, full of aspirations and dreams when they join the engineering or management course. Students are the most important part of an educational institution. They are the flowers that bloom over a period few years in their academic career to become successful, Successful not only to get a job or become an entrepreneur but to be a great Individual.

The Department of Training and Placement ensures that each of these students is nurtured to bringout their best potential. They are provided with various trainings on Professional grooming, aptitude, Soft Skills, Technical skills and of course the most important – Life skills. Students of SJEC are one of most preferred choices of many of the employers who are regular hiring partners on Campus. Over a period of time SJEC student quality has gained trust and confidence of highly esteemed organizations. Our focus is on building an expert professional with basic Human Values.

I share with great pride that every year we have our students being recruited for defense forces. To name a few of the esteemed organization like VMWare, Global ESoftsys, Wipro, TCS, Infosys, Anglo Eastern, BOSCH etc. are our regular campus hiring partners. This year we have seen an upscale in hiring numbers and also students bagging high package offers. We are extremely proud of our students for their wonderful achievements. The structured training and placement program has led to the achievements of these big numbers that are scaling new heights every year.

My heartfelt thanks to all the recruiting organizations who have bestowed their trust in SJEC and its students. We stay committed to deliver Professionals of value and Quality meeting the industry standards. I wish to thank the Management, Faculty members and Staff of SJEC for always being a constant support in all the activities carried out by the department.

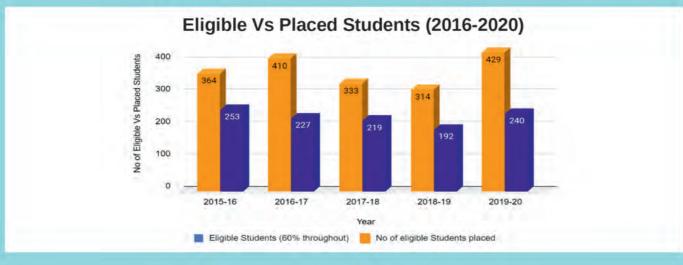
Ms Sangeeta Ferrao

Placement Officer



Students - Placement Achievements (2019-20)







Message from the HOD

A focused goal, dedication to innovation and a culture of care - the department of CSE works for the benefit of young technocrats. Our effortful goal is to tune our students towards Sincerity at work, Nobility in cause and Service to the society. Computer Science Engineering is an indispensable part of our lives, shaping virtually everything from the objects around us to the ways in which we communicate, travel, work, and play.

The aim of our N.B.A. accredited four year B.E. program is to enable the students so that they are skilled at the theoretical, algorithmic, implementation and systems principles that emphasize programming languages and software development. The Department with qualified and experienced team of faculty members dedicates to reinforce effective teaching learning process in the ambiance of helpful environment well supported and filled with curricular along with co-curricular activities. From time to time department organizes student development programs and hands-on workshops to overcome curriculum-industry gap. The Department is wide open to innovative ideas and methodologies to establish itself as the most hunted excellent learning center in this part of the state.

In this extreme time of distress and lockdown due to COVID-19 which the world is facing, it is indeed a challenge for educational institutions like ours to complete the academic year and the syllabus. The need of the hour is to follow innovative pedagogical methods with the help of information technology at the time of crisis. Our faculty have left no stone unturned in delivering lectures online using tools such as Zoho Meeting and GoToWebinar which are also posted on YouTube, Google classroom and Canvas. Our students are also advised to go through the freely available e-Learning materials such as Virtual Labs & SWAYAM (MHRD Govt of India Initiatives) and Spoken tutorials by IIT, Mumbai.

We will definitely emerge out of the COVID-19 crisis and due to the untiring effort of our faculty and dedication of students we will come out with flying colors.

Dr Sridevi Saralaya Professor & Head

CIPHER: A Platform to Discover Hidden Talents





Event: Inauguration of CIPHER- Student Association

Date: 1 October 2019

An informal Inaugural of CIPHER- Student Association with the purpose of welcoming second year students to the department.



Event: LaTex Workshop

Date: 31 August 2019

Resource Persons: Ms Sona Mundody, Assistant Professor, CSE, Ms Chaithra, Assistant Professor, CSE **Objective:** To provide knowledge of Document typesetting

using LaTex.

Targeted Audience: III-year CSE students.



Event: Session on GIT and GITHUB

Date: 10 March 2020

Resource Person: Mr Rohan Don Salins, Assistant

Professor, CSE

Objective: To provide students with the basic knowledge of the features of GIT, creation of web applications using modern tools and version control of web applications

with GIT.

Targeted Audience: III-year CSE students.

Event: Aurora-2019

Date: 26 October 2019

The fest consisted of three events that were categorised into technical, semi-technical and non-technical.

1. Lights Out - A blind coding event

2. Enigma - A semi-technical event

3. Counter Strike - A gaming event

Objective: To provide a platform for students to plan, organize and participate in various events.

CSI: A Forum to Learn-Implement-Share



Event: Hands-on session on DB Application Development.

Date: 24 August 2019

Resource Person: MS. Pramila R M, Assistant Professor,

CSE

Objective: To enable students to create database

applications for real world problems.

Targeted Audience: III-year CSE students.



Event: Digital Image Processing and Applications

Date: 28 -29 February 2020

Resource Persons: P C Siddalingaswamy, Dr Narendra V G, Associate Professors-Senior (CSE), from MIT, Manipal.

Objective: To gain knowledge of research-based methods

for solving complex problems.

Targeted Audience: III-year CSE students



Event: Database Application Project Display

Date: 8 October 2019

Resource Persons: Final Year CSE Students

Objective: To gain knowledge on the creation of database

applications for real world problems.

Targeted Audience: III-year CSE students

Event: Industrial visit to Infosys Campus, Mudipu, Mangaluru

Date: 3 March 2020

Objective: Enable students to understand the working environment of corporate life and gain knowledge about the recent and popular trends in the IT industry.

Targeted Audience: III-year CSE

students







Event: Faculty Development Programme on 'MATLAB and its applications in the areas of Image Processing, Computer Vision and Deep Learning

Date: 10 - 12 February, 2020

Resource Person: Mr Rakshith B S, Senior Application Engineer, CoreEL Technologies, Bangalore.

Objective: To acquire knowledge in Machine Learning and Deep Learning concepts and to develop Computer Vision

applications using MATLAB.

Targeted Audience: Faculty of SJEC and External Faculty from neighbouring colleges

TARGETING OVERALL DEVELOPMENT



Event: Faculty Development Programme on Deep Learning & Machine Learning using MATLAB

Date: 10 - 12 July, 2019

Resource Person: Mr Pramod Kumar Naik, Lead

Engineer, CoreEL Technologies.

Objective: To acquire knowledge in Machine Learning

and Deep Learning concepts.

Targeted Audience: All interested faculty and research

scholars from various colleges within the state.

Event: CISCO Certification Introductory session

Date: 9 - 10 August, 2019

Resource Person: Pradeep, Corporate Trainer and Mr Neelesh Rai, Executive Trainer from Natella authorized CISCO Trainers.

Objective: To familiarize the students with the various

certification programs under CISCO.

Targeted Audience: III-year CSE students

Event: Faculty Development Programme on Microcontrollers and Embedded Systems

Date: 27 -29 January, 2020

Resource Persons: Dr B Venkatesa Perumal, Dr K

Chandrasekaran, Mr Harish Nadig

Objective: To familiarize the faculty with the ARM

controller kit.

Targeted Audience: All interested faculty and research

scholars from various colleges in the state.



Event: Hands-on Workshop on Machine Learning

Date: 10 - 12 February, 2020

Resource Person: Mr Mohammed Ameer, founder of

Diazonic Labs, Bengaluru.

Objective: To help the final year students achieve a deeper and application level understanding in Machine Learning.

Targeted Audience: IV-year CSE students



Event: Code Runner 2.0 and MindHunters

Date: 26 September, 2019

Objective: To make participants experience competitive programming and also to make participants think outside the box with the riddles, Critical thinking and experience the basics of programming.

Targeted Audience: Open to all Department Students of

all Years



Event: Preparation for Higher Studies' by T.I.M.E. Pvt. Ltd

Date: 24 September, 2019

Resource Person: Mr Ashwith Poojary of T.I.M.E. Pvt.

Ltd, Mangaluru

Objective: To guide the students about the preparation required for higher studies and the qualifying examinations that are an admissions requirement for postgraduate

degrees.

Targeted Audience: III-year CSE students.



Event:One-day hands-on workshop on 'Web Scraping with Python

Date: 21 September, 2019

Resource Persons: Mr Karthik Bhat, Mr John Fernandes, Mr Jason Misquith, Mr Jovel Cardoso, Mr Jaison Castelino from Unicourt India, Mangalore.

Objective: To give hands-on experience on scraping data

from websites.

Targeted Audience: III-year CSE students.

WEBINARS HOSTED DURING COVID LOCK DOWN



FACULTY ACHIEVEMENTS

PhD AWARDED

Mr Ashwin T S Awarded with Ph.D degree from NITK Surathkal for his research work titled "Unobtrusive Affective Computing Framework for Students' Engagement Analysis in Classroom Environment" under the guidance of Prof.G.Ram Mohana Reddy.



Also publised papers titled

- "Affective database for e-learning and classroom environments using Indian students' faces, hand gestures and body postures" Future Generation Computer Systems, 2020, 108, 334-348 SCI and Scopus Indexed Impact Factor: 4.6
- "Impact of Inquiry Interventions on Students in E-Learning and Classroom Environments using Affective Computing Framework" User Modeling and User-Adapted Interaction 1- 43 (2020). SCI and Scopus Indexed Impact Factor: 3.5



A sprawling green campus with a repute to match, an institution of caliber within your hometown, a team of qualified and humane professors, what more could one ask for? Well, my four years at SJEC have belped me grow both academically and as a person. This institution has belped me evolve into the person I am today, fostering the right values. The faculty have always been there as pillars of strength to assist, encourage and guide me, to sail through concerns, if any. SJEC has provided me with plenty of learning opportunities through the numerous seminars and workshops that were organized in the institution; these have aided in improving my professional skills. Moreover, the exposure to aptitude training classes facilitated me with my placements early on. Not to forget, this campus has given me some of my closest friends. SJEC has given me some of the best years of my life that I will cherish forever.

Nigel D'Costa VIII Semester, CSE



Dr Sridevi Saralaya has published paper in SCI and Scopus Indexed Quartile - Q2, with Impact Factor - 2.12. Sridevi Saralaya, Vishwas Saralaya, Rio D'Souza, "**Cross-layer Impact Analysis and Adaptation of Hierarchical Service-Based Applications"**, Service Oriented Computing and Application, Vol. 14, pp. 49–63 (2020). https://doi.org/10.1007/s11761-019-00282-w







STUDENT ACHIEVEMENTS



Ms Vinaya Shetty of third year secured second place in Kavana Spardhe-2020 held on 26 April 2020 at Kundapur.



Ms Kavitha Rao of third year secured first place in Eastern Dance(group) event at the State Level Intercollegiate Cultural, Technical and Management fest held in April 2019 at Mangalore Institute of Technology & Engineering, Mangalore.

STATE LEVEL ONLINE CODING CONTEST

Mr Winston Sebastian Pais of third year won **1st Prize** in State Level Coding Contest "Debug Your LockDown HACK-2020" organized by Indian Society for Technical Education Karnataka-Section.



Student Speaks...

When I started my journey at SJEC, being enthusiastic and eager to learn, I became part of a community of teachers and peers that helped me thrive. Throughout the four years I was presented with varied challenges which SJEC helped me face, by equipping me with the required tools. Our annual national-level tech fest TIARA encouraged me to participate in both technical and non-technical intra-and inter-departmental events. It helped to push me outside my comfort zone, learn the value of teamwork and collaborate with people from different technical backgrounds. In the department of CSE, students were encouraged to hone their technical skills through various tinkering labs and workshops. Our faculty made classes more interactive through the use of active learning techniques. Students were also given the opportunity to get certifications, which added much-needed value to our CVs. As a final year student, I received ample training in aptitude and soft skills from the weekly V-ACT and I-Point classes, which helped me with campus placements. The exposure to this environment of learning and perseverance at SJEC has prepared me for life as a professional.

Sthuthi Sadananda Final year B.E. (CSE)



KSCST FUNDED PROJECTS



The project titled "Eye in the Sky" by Mr Sushanth Sapaliga, Ms Princi Paul DSilva, Mr Rachel Pinto, Ms S B Shubha under the guidance of Ms Vijetha U has received a fund of Rs 4500/- by Karnataka State Council for Science and Technology and awarded Best project of the year 2020.





The project titled "Conversion of Handwritten Mathematical Expression into LaTeX" by Ms Ashwini K, Ms A Navya, Ms Elrica Neha Costa, Ms Lyvia Greema Pereira under the guidance of Ms Chaithra has received a fund of Rs 2500/- by Karnataka State Council for Science and Technology.

The Project titled "VISCON -Visual Conversation a speech hand sign conversion system" by Mr Guru Saurabh, Mr Joel Miranda ,Ms Halit Maria DSouza, Ms Jovita Adline Cutinha under the guidance of Ms Lavina D'Silva has received a fund by VTU TEQIP.









Message from the HOD

"What is education? Is it book learning? No. Is it diverse knowledge? Not even that. The training by which the current and expression of will are brought under control and become fruitful is called education"

- Swami Vivekananda

In the above quote Swami Vivekananda rightly pointed out the significance of will power and mind control of both students and teachers in an education system which is very much essential for the development of a healthy society.

College magazine is a mirror of the college life of both students and staff and reflects the technical, educational, literature, extra -curricular and sports activities being conducted in the Institution. The magazine is indeed a precious document that preserves the words and vision of our talented students and staff. It is a significant milestone in their creative journeys and inspires them to aspire higher. Beautiful pictures of students and staff, various activities, events, really create an unerasable memory in the minds of our outgoing students.

I have a great pleasure in conveying my best wishes to the college magazine 'Abhiyaana-2020' which brings the students and teachers of various Engineering disciplines and Management on a common platform to share and display their ideas and creative talents. I wholeheartedly congratulate all the contributors and the editorial board for bringing out beautiful 'Abhiyaana-2020'.

Dr Dayakshini Professor & Head

ABSTRACTIONS TRANSFORMED INTO TANGIBLES



A Deep Learning workshop organised by Department of ECE in association with SJEC-MATLAB and MATHWORKS For the faculty of ECE, CSE and EEE Departments

Date: September 3, 2019

Resource person: Mr Amith Kamath,

MATHWORKS

Engineers Day

Date: September 16, 2019

Chief Guest: Mr Arun Prabha K S, the Chairman of the Association of Consulting Civil Engineers, Mangalore Center.

"Technical Treasure Hunt" and "Pick and Speak" events were held. 3rd, 5th and 7th semester ECE students participated in the events.



Tessolve Semiconductor Laboratory and Biomedical Electronics Research Laboratory Inauguration



Date: September 14, 2019

Chief Guest: Mr Mahesh Bhatkal, Technical Director, Applied Digital Microsystems, Mumbai.

Objectives: a) Tessolve Semiconductor Laboratory is set up to train students as test Engineers in the field of Semiconductor IC Testing.

b) Biomedical Research Laboratory is set up with an objective to help faculty and students to carry out their projects and research in the field of Biomedical Engineering.

A workshop was conducted on LGLite to know the importance of testing in the semiconductor test industry.

Date: September 14, 2019.

Resource person: Mr Mahesh Bhatkal, Technical Director, Applied Digital Microsystems, Mumbai.



'Prodigi'-ECE student's association organized a Branch Entry Program for the II year B.E students

Date: September 27, 2019.

Technical talk on '1, 2, 3, 4, 5 of Cryptography' organised by Department of ECE in association with IEEE SJEC Student Branch

Date: October 1, 2019

Resource person: Dr Alwyn Roshan Pais, HOD, Department of CSE, NITK,

Surathkal







Alumni Interaction organized by 'Prodigi' -ECE Student's Association

Date: October 12, 2019.

Resource person: 1) Mr Saurabh Jain, 99 Games & Alumni 2) Ms Shilpa Shenoy, KarMic Design Pvt Ltd. & Alumna 3) Mr Madan B, Director, KarMic Design Pvt Ltd. 4) Mr Pringal D'Souza, Member of Technical Staff, KarMic Design Pvt Ltd., Manipal.



Workshop on 'Cyber Safe Campus'

organized by Prodigi- ECE Student Association in collaboration with Student Welfare and Alumni Group (SWAG), SJEC. The session reflected on Various threats involved with the internet usage & IT act 2008.

Date: October 21, 2019

Resource person: Dr Ananth Prabhu G, Cyber

Security Trainer.

Alumni Interaction was organized by ECE Department in association with SWAG,SJEC. The session reflected on Getting into Core Company and how to face interviews.

Date: October 26, 2019

Resource person: Mr Vignesh Aithal,

CADENCE and Alumni



IIT Bombay-Spoken Tutorial and Online Exams

Date: November 4 & 5, 2019

This exam was conducted for the second and third year ECE students. In total 113 students of II year ECE successfully completed the course on "Arduino" and 86 students of III year ECE completed the course on "C & C++". This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India.



Research opportunities in Biomedical Engineering, a three day Faculty Development Programme was organized

by ECE Dept to provide a balanced exposure of theoretical and practical aspects in various fields of Bio-Medical Research.

Date: January 8-10, 2020.

Resource Persons: 1) Dr Ganesh V Bhat, Professor and Principal, CEC Mangaluru, 2) Dr Ram Mohan Guddetti, Professor, Department of Information Technology, NITK Surathkal 3) Dr Rio D'Souza, Principal, SJEC,

Mangaluru 4) **Dr Rama Shanker Verma**, Professor, Department of Biotechnology, IIT Madras, 5) **Dr Vidya Kudva** and **Ms Roopa Hegde**, Associate Professors from NMAMIT Nitte, 6) **Dr Dayakshini**, HOD, ECE, SJEC and **Mr Mahesha Y,** Assistant Professor ECE Dept, SJEC.

Talk on "DSP Applications", organised, in association with Institute of Engineers (India) Society. The session outlined the DSP Applications in the field of Computing, Telecom,

and the research opportunities on DSP Applications at Manipal Dot Net. Pvt Ltd.

Date: February 8, 2020.

Resource Person: Dr Niranjan U C, Director of Research and Training,

Manipal Dot Net Pvt. Ltd, Manipal





"Induction program" for first year students of ECE

Date: February 13, 2020.



"VTU **TEQIP** CELL **Training** Program for Lab Instructors", TEQIP 1.3 Sponsored Two Day Program, was hosted

in association with VTU Belagavi, Aryabhatta Knowledge University, Patna - Bihar and Biju Patnaik University of Technology, Rourkela -Odisha

Date: March 6-7, 2020.

Resource Persons: Experienced resource persons from MRPL - Mangaluru, CSGI -Bengaluru, Mangalore City Corporation and SNM Polytechnic – Moodbidri

The training emphasized on procedures to be followed during the replacement/installation and up gradation of electronic hardware/software, to develop communication skills, behavioral skills and to create awareness on environmental safety, public health and occupational health.

Talk on "Innovation & Entrepreneurship"

organised by Prodigi in association with Industry and Innovation Group (IIG)

Date: March 2, 2020.

Resource Person: Dr Manesh Thomas, Chief Executive Officer, Manipal - Government of Karnataka Bioincubator,MAHE.

The session reflected on the concept of Bio-Incubators and how it can help and encourage students and faculty to have a successful Startup, and the monetary benefits that are available for the same were briefed.







Peer Learning Talk

'Prodigi'-ECE Student's Association organized a Peer Learning Talk on "Build your career with internship and project opportunities" for II year ECE students

Date: November 7, 2019

Resource Persons: Mr Sanketh Prabhu and Mr Sagar Nayak, III year ECE

Student Speaks...

At the verge of completing my four years at SJEC, I, Jeevitha Lora Rodrigues currently pursuing VII semester in the department of Electronics and Communication Engineering, feel extremely delighted to pen down my thoughts and few wonderful moments along my journey in this Department. Motivation and competency development, coupled with academics are the defining characteristics of effectual learning, and this is what I received here. With a dedicated and dynamic team of highly qualified faculty, the Electronics and Communication Engineering department at SJEC, not just aims at imparting quality education, but is also an absolute bub for an all-round development of an individual. My time in this department has been an amalgamation of learning and fun with a plethora of extra-curricular activities. The guidance and mentoring received from my professors here, has always infused me with optimism and an exuberance to give my best. Academia dealt with an outcome based approach has enkindled the joy of innovation and a zeal to accomplish much more beyond classroom learning. The infrastructure and facilities provided by the department along with a cordial team of lab staff bas indeed smoothened my journey as a student. Opportunity has been the biggest present this department has given me, one that I will forever cherish and be thankful for. Expressing it all in a single phrase, I could have ever experienced as a student.

Proud to be an ECian...!!

Jeevitha Lora Rodrigues
VIII Semester ECE, A Section

FUNDING AGENCY: VTU TEQIP CELL

- Dr Dayakshini and Ms Reshma K J received a grant of Rs 1 Lakh from VTU TEQIP CELL to conduct TEQIP 1.3 Sponsored Two Day Program on "VTU TEQIP CELL Training Program for Lab Instructors", from 06th to 07th March 2020.
- 2. Dr Dayakshini guided the project titled "Rescue Device for Open Borewell Accidents" received a grant of Rs 5,000 and was shortlisted for the final round of VTU project competition "AVISHKAR" in June 2020. Project Team includes Astrid Jane Fernandes, Hitesh D S, Hanisha Shaini Gonsalves and Gowtam of Third Year Electronics and Communication Engineering.

FUNDING AGENCY: KSCST

- Mr Srinidhi, Mr Nithin A, Mr Vijay Kumar N H and Mr Sanjay Nayak have received Rs 5500/-for the project titled "Automatic Natural rubber milk mixing machine by determining the dry rubber content of Latex" under the guidance of Ms Deepthi S R, Asst. Professor, ECE.
- Ms Binitha Ann John , Ms Raksha M S , Ms Harsha Naik, Ms Basava Rajeshwari has received Rs 5000/- for the project titled "Design of Low Cost Portable Sleep Detector for Driver Vigilance" under the guidance of Ms Jayalakshmi K P, Assistant Professor, Department of ECE.
- Ms. Bhavishya R Kaiya, Ms. Nandini G K, Ms. Netra N Baradi and Ms. Livya Andrea Pinto has received Rs 4500/for the project titled "SJEC Visitor Assistance Device" under the guidance of Ms. Padmini Bhat, Assistant Professor, Department of ECE.

FACULTY ACHIEVEMENTS

PHD Award



Mr Rohan Pinto

Title: An Efficient Architecture for Discrete Wavelet Transform Processor

Awarding University: Manipal Academy of Higher Education (MAHE), Manipal

Year of Awarding: 2019

SPECIAL ACHIEVEMENTS

Dr Jagadeesha R Bhat has been conferred with the Best Paper Award for the paper titled "User Satisfaction Based Resource Allocation in LTE-A" in the International Conference on "VSPICE-2019" during May 23-24, 2019 at NMAMIT, Nitte.





Ms Deepthi S R guided a project titled "Automated rubber tapping & rubber milk mixing machine" selected for FDP to develop a prototype of the project under SPP series 42nd KSCST. This Project was exhibited at the state level seminar and exhibition of student project programs held at K.L.E. Dr. M.S. Sheshgiri College of Engineering and Technology, Belagavi on 26th and 27th July 2019.

Ms Preetha D'Souza guided a project titled "EMG based Prosthetic Leg" which was selected under VTU for Innovative Project of Final Year UG Students for the Year 2018-2019.



REVIEWERS OF VARIOUS JOURNALS



Dr Dayakshini: Reputed International Journals published by Elsevier, Springer, IEEE, Wiley and Bentham Sciences.



Dr Jagadeesha R
Bhat: Journal of
Engineering Science
and Technology and
journal of Security and
Privacy
(Scopus indexed).



Dr Rohan Pinto: Journal of Circuits, Systems and Computers (Scopus indexed)



Ms Jenifer C
Saldanha:
IEEE Signal
Processing Letters
and IEEE Transactions
on Neural Systems
and Rehabilitation
Engineering



Dr Sandhya Dass:
Associate Editor
of Journal of
Engineering Education
Transformations.

STUDENT ACHIEVEMENTS

TECHNICAL EVENTS

Mr Nithin D'Souza of Third year

- Secured Third Place in Line Follower event organized by PLASMA-2019 held on 4 to 5 October 2019 at Jawaharlal Nehru National College of Engineering, Shivamogga.
- Secured First Place in RC Race in AEROPHILIA 2019 held at Sahyadri College of Engineering
 & Management on 20-21 September 2019.
- Secured First Place in Perfect Machine organized by mechanical committee of Engineer 2019.
- Secured First Place in Light of Seven organized by TRONIX committee of Engineer 2019.



• Won Second Place in Robowars held at Fr C Rodrigues Institute of Technology, Vashi.





Garry L Pinto Won III Place in Adrenaline- Technical Quiz, organized by Fr. Muller Medical College, Mangaluru.



Mr Sudeep Sapnil Gonsalves & Mr Sagar Nayak participated in ISRO Summit held at Taj Yashwanthpur, Bengaluru.



Mr Karan Gupta

- Secured Second Place in Quiz (Incredia-NMAMIT) held on 15 Feb 2020 at N.M.A.M. Institute of Technology, Nitte, Karkala.
- Secured Fourth Place in TCS TechBytes IT Quiz Regional Finals held on 25 Feb 2020 at Srinivas Institute of Technology, Mangaluru.

EXTRACURRICULAR ACTIVITIES



Ms Nandini G K - Final year

Won 'Miss beautiful smile •
 2019', in an event 'Miss
 Mangaluru 2019' held at Hotel
 BMS, Derebail, Mangaluru.



Has completed a course on 200 hour International standard of hatha yoga teacher training on 28 January 2020.



Mr Prasad Lester Patrao, Mr Harsha Raj & Mr Anush A Shetty has won First Place in Mad Ads held on 18-22 Feb 2020 at Father Muller Medical College, Mangaluru.



Mr Divij Kumar & Mr Gautham C S of third year secured first place in Jackpot Treasure Hunt at Sentia 2019 organised by MITE, Moodabidre on 19 June 2019.

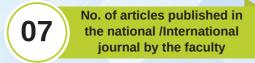
Mr Prajwal Kiran Amin, Mr Pravav Seethur, Mr Harsha Raj & Mr Prasad Lester Patrao has won first place in Mad Ads in Incredia, held on 18 Feb 2020 at NMAMIT Nitte, Karkala.





Ms Priyanka R & Ms Sindhushree V

- Secured I place in Thematic Dance at SIT, Mangaluru and at CEC Mangaluru.
- Secured II place in Eastern dance at NMAMIT, Nitte



28

Papers Presented in National
/ International Conferences
by the faculty

No. of Workshops/ STTP's / FDP's/ attended by the Faculty No. of Online courses completed by the faculty

73

Faculty *l*Student
Achievement

Online Courses completed by the students

152

No. of Internship Programs/ trainings/workshops carried out by the students

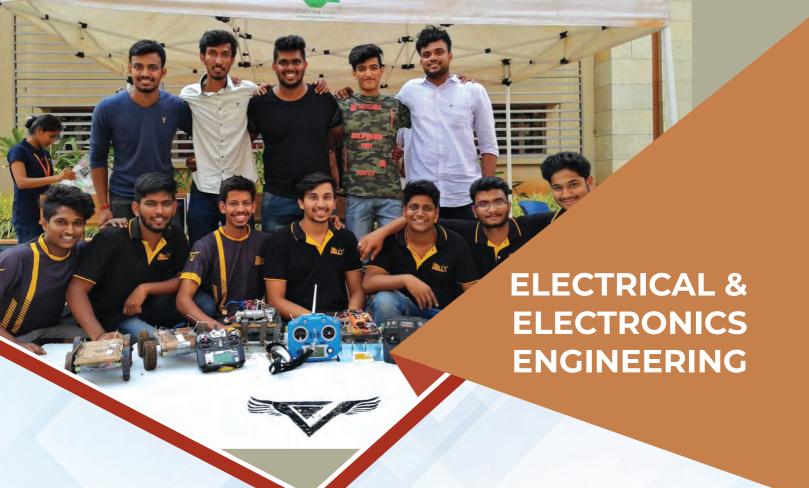
14



Student Speaks...

Electronics and Communication Engineering was my ambition since 6th grade. I finally got to pursue it at SJEC. It has been a fruitful journey with the Department of Electronics and Communication. The classes ensured that the basics and theoretical concepts are clear and the laboratories with best in class equipment bridged the gap between the classes and practical scenarios. The faculties and technical staff are very cordial, helpful and approachable. There are a lot of opportunities up for grabs and a lot of things to learn from workshops, talks and various events hosted by the department that ensures you are industry ready.

S Anantha Kamath VIII semester, B Section



Message from the HOD

"May God protect us both (teacher and student)!

May we both enjoy knowledge! May we learn together!

May our study be brilliant! May we not hate at each other!"

- Yajurveda

The above quote clearly highlights the significance of rapport between the teacher and the student in teaching learning process. The main goal of education is to satisfy the thirst for knowledge in both the teacher and the student. Satisfaction lies in gaining continuous knowledge and experience so that a student can lead his/her life with confidence. This mode of education can be achieved by proper mind set and sheer determination of both the teacher and the student.

Engineering students have a big responsibility to create innovative solutions and implement them effectively in order to tackle real life challenges confidently. In SJEC we give importance to both academic and co-curricular activities. As a part of holistic education, we conduct various developmental programmes such as Industrial visits, Guest Lectures, soft skills and so on.

Abhiyaana 2020 is a representation of past, present and future endeavours of SJEC. It is also a platform to show case the talents of our students and staff. Progress of our institution is reflected in the magazine. Further, it binds us together as SJEC family. I congratulate the college magazine team for successful accomplishment of Abhiyaana 2020.

I thank the management of SJEC for giving whole hearted support for the continuous development of this premier Institute.

Mr Sathisha K Assistant Professor & In-Charge HOD



DEPARTMENT ACTIVITIES

Event: Add on course on PLC training programme.

Resource person: Mr. Himanshu, INDWELL TECHNOLOGIES, PUNE

Date: 5th to 9th August 2019



Event: Talk on "Career guidance and Professional Ethics"

Resource person: Dr Raj KiranBallal,

Professor, EEE Dept **Date:** 18th October 2019

Event: Basics of Electrical Engineering for RUSEMP Trainees

Venue: RUSEMP Community College,

Pakshikere

Resource person: Mr Ajithanjaya Kumar M K, Assistant Professor & Mr Maxim D'Souza,

Foremen

Date: 19th to 21st September 2019





Event: Seminar on "Smart Grid And Smart Cities"

Resource person: Mr Mohammed Shakir, KPTCL Representative, Mangalore City Corporation

Date: 22nd November 2019

Event: Three Day FDP on Recent Trends in EV Technology



Date: 12th - 14th December 2019

DAY 1:

The forenoon session consisted of a technical seminar on Motors Used in EV by Dr. A B Raju, Professor & Head, EEE, KLE Tech, Hubballi.

The afternoon session consisted of a practical session on Mobility and Dynamics in EV by Dr. K V Gangadharan, Professor, Mechanical Engineering, NITK, Surathkal and his research team.

DAY 2:

The forenoon session consisted of a technical seminar on EV Architecture Modelling, Analysis and Component Selection by Mr Suraj S D, Founder & CEO, Decibels Lab Pvt Ltd.

The afternoon session consisted of a technical seminar on EV charging methods by Dr Venkatesa Perumal, Professor Incharge STEP NITK.

DAY 3:

The forenoon session consisted of a technical seminar on Battery management system (BMS) by Mr Ashwin Simha, HW Design Expert in Batteries.

The afternoon session consisted of technical seminar on Motors used in EV and motor design by Dr Ankit Dalal, Motor Design Engineer at Ather Energy.















FACULTY ACHIVEMENTS



Dr Sheryl Grace Colaco, Professor from department of Electrical and Electronics has secured **SPIE Education Outreach Grant of \$4,715** for the institution. SPIE is an international not-forprofit professional society for optics and photonics technology, founded in 1955, Washington, USA as its headquarters.



STUDENT ACHIVEMENTS

Mr Prathik, Mr Veekshith, Mr. Sandesh Nayak, Mr Gladson Suraj Pereira and Ms Vaishnavi has secured second prize in events like Robowars and Perfect Machine in Engineer'19 held at NITK Surathkal.





The project titled VTOL-UAV FOR PESTICIDE SPRAYING had won the KCST funding in the year 2020. The team is guided by Mr Sathisha K,



Assistant Professor and the members of the team were R K Arathi, J S Yashmitha, V Nadhiya and Veekshith.



The project titled SOLAR BASED MULTITASKING AGRICULTURE ROBOT had won the KCST funding in the year 2020. The team is guided by



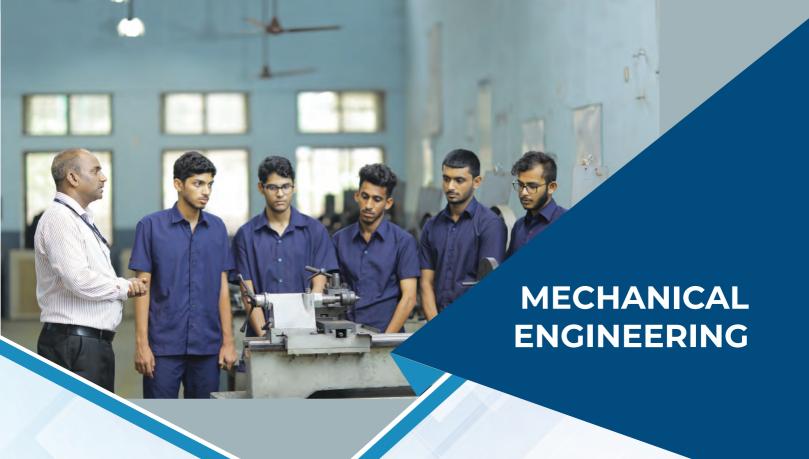
Mr Rolen Lionel Rodrigues, Assistant Professor and the members of the team were **Akhilesh**, **Bharath**, **Chaithra S and Pavan Kumar Tamse**.

Student Speaks...



Our college has got one of the best infrastructural facilities and brilliant faculty. It aims for the overall development of the student by providing various platforms. College provides every support the student needs, be it in academics, sports or any other interests. As far as the placements are concerned, enough opportunities are provided to every student. Moreover, having a placement policy in order makes thing even more transparent. I am really lucky and proud to have been a part of this institution.

-J S Yashmitha, 4th Year E&E



Message from the HOD

Mechanical Engineering is one of the most evergreen as well as the oldest branch of Engineering. However, Mechanical Engineering has evolved to a great extent in recent years. Now, Mechanical Engineering is not just limited to thermodynamics, mechanics and motor vehicles but has expanded vastly to adapt to the current needs of technology. The future of Mechanical Engineering is spread across various emerging streams that hold many promises to make the future a better place to live in. Some of the promising streams that are the quintessential applications of the future of Mechanical Engineering are: nano-engineering, biomechanics, automobiles and aviation, buildings of the future and urban designing, automation and robotics and the list goes on.

The Department of Mechanical Engineering at SJEC has been making sincere attempts to nurture its students with necessary skills and innovative spirit needed for their future. Our dedicated staffs ensure that all our young students have a strong education with leadership, management and teaming skills, internship experience, involvement in project work and student activities. We entrust that emphasizing these areas will make our young students well-qualified to take leadership roles in the future. The Department has made significant advances in Online Education using ICT tools in response to sudden shift in the educational landscape due to COVID-19 pandemic. Our attempt is to provide our students with a cheerful, productive and satisfying experience at all levels so that they can explore the amazing world of Mechanical Engineering.

We whole heartedly welcome the comments and suggestions from all our stake holders in strengthening our Department.

We are sure that readers will be delighted to know the activities and achievements of the Department during the academic year 2019-20. Our complements are to the editorial board members for their effort in compiling this annual magazine ABHIYANA 2020. Wish you all happy reading.

Dr Sudheer M
Professor & HOD



DEPARTMENT ACTIVITIES



e-TIME 2019 Conference: Held on 8-10 August 2019.



Technical talk: "Polymer Composites for 3D Printing" by Dr Jayavardhana M L, Associate Professor, Department of Mechanical Engineering, SJEC, Vamanjoor, Mangaluru on 25 October 2019.





Technical Talk: "Readiness for Core Engineering Companies" by Mr Rushabh Kathote on 10 February 2020.



Technical Talk: "A journey into the Real world" by Mr Aston D'Souza on 20 February 2020.

Technical Talk: "Career Opportunities in Government Sector" by Mr Ananth Pai and Mr Rahul Kumar on 28 February 2020.





Technical Talk: Torque Association organized a technical talk by Mr Prathap Rai on the topic 'Opportunities in Merchant Navy' on 5 September 2019.

Engineers Day: Torque Association organized various activities for students on 16 September 2019.





Branch Inauguration: Torque Students Association organized an inaugural of Branch Association and Welcoming Lateral Entry students for 2nd year on 20 September 2019.



FACULTY ACHIEVEMENT



Best Paper Award



Dr Shreeranga Bhat

- Article titled "Effective Deployment of Outcome Based Education: Strategies based on Motivational Models", at 7th International Conference on 'Transformations in Engineering Education (ICTIEE 2020)', held on 6-8 Jan 2020 at Anurag Group of Institutions, Hyderabad.
- Article titled "Application of Robust Engineering Approach for DC Motor Controller Design", in the International Conference on 'Advanced Smart and Sustainable Technologies in Engineering (GCASSTE-2020)' held on 30-31 Jan 2020 at Mangalore Institute of Technology and Engineering, Moodabidri, Karnataka

Associate Editor – Journal of Engineering Education Transformation (Scopus Indexed Journal)

Editorial Advisory Board Member – International Journal of Lean Six Sigma (SCI Indexed Journal)



Mr Prathviraj H

Filed a patent titled "Mutually opposite and coaxially rotating armature and field coils type electric generator" and was published in the Official Journal of Patent Office, India, Issue No. 24/2019 dated 14 June 2019.

SJEC is recognized as one of the Active and Shining Virtual Lab Nodal Center at the National level

Newsletter by Virtual Labs, AABHASHI was released recently and we are happy to note that the Nodal Center, St Joseph Engineering College, Mangalore has been selected as one of the Most Active Nodal Centers of Virtual Lab NITK by IIT Delhi for the year 2019.



Established in the year 2016 under the participating institute NITK

Surathkal, SJEC-Virtual Lab Nodal Center has been actively involved in conducting virtual labs in all engineering disciplines including the basic sciences. The SJEC Nodal Center has also organized several workshops and awareness programs on use of Virtual labs for staffs and students of SJEC as well as neighboring institutions.



STUDENT ACHIEVEMENTS

Achievement in Extra-Curricular Activities

Achievement in Co-Curricular Activities

36

Certification
Course
completed by
the students

Webinar Participation 58

SJEC | ABHIYAANA 2020

SAEINDIA - SJEC, ISIEINIDA-SJEC COLLEGIATE CLUB



SAEINDIA BAJA 2020 held from 23rd to 26th January 2020 at Pithampur, Indore - Madhya Pradesh

Team SJEC Racing:

SAEINDIA BAJA 2020, Out of 150 Teams: Endurance Race: 11 Rock Crawl: 8 Acceleration: 20 Static Event: 23 Overall Rank: 31

ATVC GUJARAT: Team eSJEC

Racing participated in ATVC 2020 held from 14-17 February 2020 at Vadodara, Gujarat.

Acceleration: 5 Endurance: 5 Sledge Pull: 6 **Overall All India**

Rank: 5





TEAM ARTEMIS RACING

Secured 1st Position in Virtual IGC Quiz and 7th rank in International GO-KART Championship 2020 virtual event at International GO-KART Championship-2020 held from 17-18 October 2020 organized by Lovely Professional University, Punjab.

TEAM ACHILLIUS

All India Rank 3
Electric Solar Vehicle Championship
Season7
Held from 9-11 October 2020



TERROR BULL ROBOTICS CLUB



Runner up of Robowars in a National Level Technical Fest "ENIGMA -2019" held at Fr C Rodrigues Institute of Technology, Navi Mumbai.

Winner of RC Race at PLASMA 2019, held at Jawaharlal Nehru National College of Engineering, Shimoga on 4-5 October 2019.





Winner of Robosoccer at PLASMA 2019 held at Jawaharlal Nehru National College of Engineering, Shimoga on 4-5 October 2019.



Terrorbull Robotics secured **Certificate of Excellence** by IIT Bombay for being in top 10 during a National Level RoboClench event.

Winner of Robowars, RC Race competition organized by Manipal Institute of Technology.





Winner of Line follower held at Canara Engineering College, Benjanapadav on 28 February 2020.



Winner of Death Race, Dirt Race, Robo Soccer held at Canara Engineering College, Benjanapadav on 27-29 February 2020.

ARC-SJEC



The inauguration of activities of the ARC-SJEC Club was held on 6 September 2019. The chief guest for the inauguration was Mr. Vion Joseph Martis, Director - VTRIA Engineering solutions, Mangaluru.

Team Kaizen of ARC-SJEC Participated in TECHFEST conducted by BMS Bangalore on 24 September 2019, which was the zonals for Ideate - The Tech Fest of IIT Bombay.

Team Kaizen qualified for two events: Maze Solver and Robo Clench.





TEAM KAIZEN of ARC SJEC led by Mr Anish, Joint Secretary of ARC-SJEC has developed the following bots for the Club to participate in various Tech Fests in the year 2019-2020.



Message from the HOD

"Science is the study of what Is, Engineering builds what Will Be. The scientist merely explores that which exists, while the engineer creates what has never existed before."

By -Theodore von Karman" (Ca.1957)

As SJEC completes 18 years of providing quality Technical education we are proud to have another addition of the College magazine Abhiyana 2020.

It gives me great pleasure to write few words as prologue for our in-house college magazine Abhiyana. It is exclusively meant for bringing out the potential writing talent as a part of your personality development. Efforts like publication of the magazine are extremely valuable on academic campuses in enhancing, developing and honing the editorial skills amongst the literary-minded students, in addition to playing the role of a mirror to the past and the possible future that holds great importance for the student.

The goal of the Civil department is that the students are benefitted the maximum during the four years of stay in the college. The constant Interaction with Industry through Technical talks and Industrial visits, is the pursuit of the department to enrich our students to real time field challenges. We often encourage Alumni to deliver Motivational talks to our students in taking up higher studies or employment.

I take this opportunity to congratulate the Editorial team for their efforts in the articulation of facts and fiction through poems, stories and creative writing.

To the batch of 2020, I on behalf of Faculty, Staff and students of the Civil Department wish you all Happiness. The far superior path is to learn to make yourself proud.

Dr Yajnheswaran B Professor & HOD



DEPARTMENT ACTIVITIES



Inauguration of NIRMAN: The events of association was inaugurated by our esteemed HOD, Dr.B.Radheshyam, This was followed by the felicitation of the meritorious students for the year 2018-19 and the announcing of Office Bearers of NIRMAN, 2019-20 was one. The elected Office Bearers are Mr. Vijeth Kumar A. K. as The President, Mr. Marshall V. R. Silveira as The Secretary, Mr. M. Niyaz as The Joint Secretary and Ms. Greeshma M. Salian as the Treasurer. The Students of 3rd and 4th year B.E. Civil Engineering then conducted a series of games and cultural events to entertain and welcome all the new entries into the department. There were also a few performances by the students of 2nd year. The entire event was concluded with some refreshments.

Event: Technical Talk on "PROFESSIONAL ETHICS"

Date: 9th May 2019

Resource person: Dr. Raghavendra K Holla B, Associate professor, Department of civil engineering, MIT Manipal

Objective: Professional Ethics, code of conduct and also on some universal ethical principle. Ethics is the difference between what you have right to do and what is right to do.





Event: Three-day Faculty Development Program on "Forensics in Civil Engineering"

Date: 22nd to 24th July 2019

Resource persons: Prof K S Jagadish, Former Professor of Civil Engineering, IISc, Bengaluru; Prof S K Sekar, Director (Estates), VIT University, Vellore; Prof R Pradeep Kumar, Head of the Department

of Civil Engineering, IIIT Hyderabad; Mr Eugine D"Cunha, practicing lawyer; Prof Babu Narayan, Department of Civil Engineering, NITK, Surathkal; Prof Prasad K Basakran Professor & Head, department of ocean engineering and naval architecture

Aiming to enhance the knowledge on civil engineering failure mechanisms and mitigations for practicing engineers, academicians and research scholars.

Event: SJEC shines at IPLEX 2019

Objective: 1) Development of Waste Plastic Lumber & Bricks using Commingled (Mixed) Waste Plastics and Single-Use Waste Plastics

2) Development of Low-cost building materials using composite made from Demolished Building Material (DBM) Waste and Waste Plastic

Faculties participated: Mr Noel D Shiri, Assistant Professor-Mechanical Engineering ; Mr Prashant Kurdekar, Assistant Professor, Civil Department



Event: Engineer's Day – 2019:

Date: 16th September 2019 at Bishop Aloysius Paul Hall from 2:00 pm to 5:00 pm.

Competition conducted: Two events were conducted as part of the celebration. Glide Abide is a working boat modelling competition and Walk n Plan is a measurement of area of a given site / structure

Staff Coordinator: Mr Bhaskar S, Assistant Professor, Civil Department

Student coordinators: Ms Pooja L and Mr Marshall Silveria.



Event: Technical Talk on "Innovative World of Civil Engineering and Construction Safety"

Date: 26th September 2019

Resource persons: Dr. K S Babunarayan, Professor and Eminent Structural Engineer, Dept of Civil Engineering - NITK Surathkal; Er. Ashok Kumar, Consulting Engineer, Mangaluru; Er. Kennet D'souza, Consulting Engineer and ACCE(I) Office Bearer; Er. Sathyaranjan Rao, Consulting Engineer and Vice Chairman

ACCE(I) Mangaluru Centre, Er. Ashwil, RAMCO Cement Representative.

Objective: Emphasize on the significance of the Innovative World of Civil Engineering. Encourage the students with inspirational thoughts.

Event: Technical Talk on "Rainwater Harvesting and Construction Equipment"

Date: 30th September 2019

Resource persons: Er. Bharath J.,

and Er. Ujwal D'Souza

Objectives: Importance of Rainwater Harvesting and Construction

Equipment





Event: Technical Talk on "Avenues for Civil Engineers"

Date: 09th October 2019

Resource person: Mr Maninarayan K T, Construction and Contract Management Expert, Eptisa-BETS JV, Kathmandu Nepal

Objectives: The technical talk was a beyond syllabus activity for the third year and final year students. The technical talk aimed at providing knowledge and

exposure to various job opportunities and career development in field of Civil Engineering.

Event: 5 day FDP on Teaching and Learning

Date: 13th to 18th January, 2020

Resource person: Dr Claire Komives, Professor, Chemical & Materials Engineering, San Jose State University, California.

Objectives: The event is aimed at empowering teachers with technical skills in order to enhance the content delivery and bring in transformations in the teaching-learning process. The training is intended to focus on design experiments, project-based learning, teaching students' professional skills, writing journal papers for engineering education, writing an effective research proposal and engineering ethics.



Event: Civil & KSPA: Social and Environmental Awareness Program

Date: 19th February 2020

Faculty Coordinator: Mr Prashanth Kurudekar

Objectives: Providing knowledge about the plastic and spread awareness on plastic pollution, plastic management, prevention and control of plastic pollution among the young minds.



BEST PRACTICES

<u>01</u>

Knowledge Enhancement through Technical Talks, Industrial Visits 02

Career Guidance through Motivational Talks by Alumni 03

Innovative Teaching Learning Practices 04

Department E-News Letter

05

Conduction of various technical activities under departmental association "NIRMAN" 06

Initiating Research through Mini Projects 07

Motivating the students to present/publish research paper in International / National Conferences 08

Continuous motivation to students/ rewarding the top scorers of university examinations

INDUSTRIAL INTERACTION



Event: Industrial Visit to Master Plannery Nirmithi Kendra, Puttur:

Date: 15 April 2019

Faculty In charge: Mr Sachin U, Mr Govinda

Krishna and Ms. Bhavya

Objectives: The industrial visit to Master Plannery Rural Development Centre provides practical knowledge to the students as to how theoretical

knowledge is put into action.



Event: Industrial Visit to Nirmithi Kendra, Surathkal

Date: 23rd September 2019

Faculty In charge: Mr Govinda Krishna M, Ms Apoorva K V and Mr Bhaskar S

Objectives: The visit was aimed at enhancing the knowledge and visualization of use of alternative building materials with

appropriate technologies.



Event: Construction site visit for V semester students

Date: 24th September 2019

Faculty In charge: Mr Chitharanjan M, Ms

Bhavya and Mr Manjunath B.

Event: Construction site visit for III semester students

Date: 25th September 2019

Faculty In charge: Ms Bhavya, Mr Manjunath B and Mr Chitharanjan M

Objectives: The visit was aimed at enhancing the knowledge in RCC construction. Skyline Signature is the proposed tallest structure in south India of 53 floors.



Event: Industrial visit for VII semester students



Date: 17th October 2019

Faculty In charge: Mr Prashant Kurdekar, Ms

Apoorva K V and Mr Ajeeth B

Objectives: The objective of the visit was to enhance the practical knowledge of students wherein students could experience the manufacturing process of RCC Hume poles and ready-mix concrete. In the construction site of Westline Signature, students were exposed to system formwork, bar bending, shear reinforcement and provision for HVAC in individual flats of the apartment.

Event: Industrial visit to Water Treatment Plant and Intake structure at Tumbe & Sewage Treatment Plant at Kavoor

Date: 18th November 2019

Faculty In charge: Mr Prashant Kurdekar, and Mr Ajeeth B

Objectives: The main objective of the visit was to give students exposure on the onsite water treatment process, intake structures like jack well and pumping station and also make them aware of how various wastewater treatment processes are carried out in the municipal treatment plant.





Event: Industrial Visit to Proposed PSC Bridge at Gurupura for the Final year students

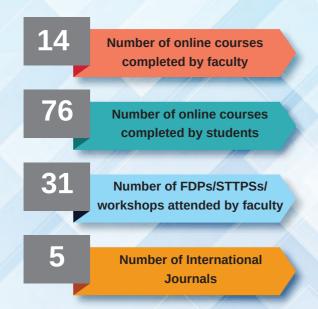
Date: 3rd March 2020

Faculty In charge: Ms Vani D, Mr Sachin U and Ms Pranamya K.

Objectives: The visit was aimed at enhancing the knowledge & visualization of process-involved pre stressing of concrete

structures.

FACULTY ACHIEVEMENTS



PHD Awarded



Mr Bhaskar S, Assistant Professor, Department of Civil Engineering has been awarded the Degree of "Doctor of Philosophy" on 19th February 2020 for his thesis titled "FENTON'S OXIDATION OF SELECTIVE HERBICIDES IN WATER USING LATERITIC

IRON EXTRACTED BY ACIDITHIOBACILLVS FERROOXIDANS BMSNITK17".

Awards and Recognition

Mr Bhaskar S Awarded International Leadership Award – 2019 for the Best Researcher in the field of Bioleaching. He was awarded on 26th January 2020 at Trichy.



Online Quizzes Conducted By Civil Department

National Level Civil Engineering Online Quiz Competition - Civil Q -2020 by Mr Manjunath B and Ms Vani D as Conveners.

Online Webinars Conducted By Civil Department

- WICE-2020 series" by Ms Pranamya as Convener
- National Level Civil Engineering Online Quiz Competition CivilQ -2020 by
 Mr Manjunath B and Ms Vani D as Conveners



External Research Grants received by the department during the year:

- a) Under the guidance of Ms. Bhavya, the project titled "Study of Behaviour of Composite Action of Lintel and Masonry" was funded by Karnataka State Council for Science and Technology (KSCST) and granted Rs. 5,000/-
- b) Under the guidance of Mr Govinda Krishna M and Mr. Sachin U, the project titled "Development of a Composite Memberane Filter for the Pachanady Dumpyard Project, Mangaluru" was funded by Karnataka State Council for Science and Technology (KSCST) and granted Rs. 5,000/-

STUDENT ACHIEVEMENTS

Ms Jahnavi U Mulki

- participated in the Incridea'20 and secured second place in Stomp That! (Western) held on 15th Feb 2020 at NMAM Institute of Technology, Nitte.
- participated in the AAKAR 2020 and won First Prize in Feet on beat (Western raw dance) event organized as part of AAKAR-2020, a State Level Techno-Cultural Fest on 6th and 7th March 2020.





WE ARE PROUD OF OUR ACHIEVER

Ms Mahima S Rao had secured First Rank in Civil Engineering and 13 gold medals at VTU level. She was awarded during VTU 19th Annual Convocation held on 8th February 2020 at Visvesvaraya Technological University, Belagavi

Student Speaks...

St Joseph Engineering College is an Institution which helps in transforming students into good human beings, responsible citizens and competent professionals. When we enter an institution, we are like novices, wet behind the ears, but when we leave the institution, we are well equipped to face all the challenges that the World throws at us.

There are many good things that I can talk about SJEC; foremost being the teaching faculty. They help us not only to gain knowledge about our specific field but also on how to use the knowledge practically.

SJEC also offers a state-of-the-art lab facility and a library that can quench any students thirst for knowledge. It's not all about studies in SJEC; along with studies a great emphasis is given to the all-round development of the students. We get ample opportunity to showcase our hidden talents. This makes us all a well-rounded personality.

The 4 years of my student life in SJEC will always be a part of my life, to be cherished and remembered fondly.

Jahnavi U Mulki 4th year Civil Engg





Message from the HOD

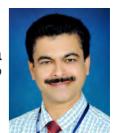
"Education is the most powerful weapon which you can use to change the world" – Nelson Mandela

Education is a process to cause transformation to the finest of our thoughts, feelings and deeds. Our education system needs to focus on quality, value and employability skills and work towards the objective of achieving a peaceful society. It is not to be confined within the walls of a classroom. At SJEC we impart education to match the advancement of technology and globalization with the ethos moral and ethical Principles. We are indeed very happy that SJEC is implementing a well balanced curriculum to ensure the students to face life's challenges.

I am gratified to know that the SJEC is bringing out the new issue of our magazine "Abhiyana" for the year 2020-2021. This issue of the college Magazine will give an opportunity to the teachers and students to sharpen their creative skills.

I express my compliments to the editors and their dedicated committee for their valuable efforts in bringing out this issue. I wish them all the best.

Dr Vincent Crasta Professor & HOD



"EPSILON" PHYSICS ASSOCIATION ACTIVITIES



Event: Student outreach programme to Government High School, Hosabettu, Moodbidri was organized by the Department of Physics under the banner of 'Epsilon' Physics association.

Date: 7 September 2019.

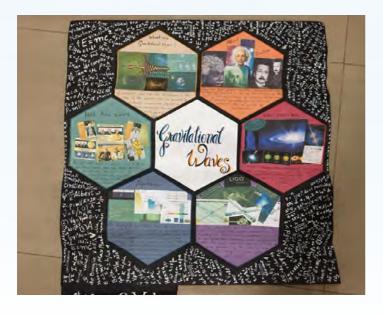
19 BE students accompanied by 5 faculties of Department of Physics carried out the outreach programme.

Event: Student outreach programme to Government High School, Navoor Bantwal was organized by the Department of Physics under the banner of 'Epsilon' Physics association.

Date: 16 November 2019

21 BE students accompanied by 5 faculties of physics department carried out the outreach programme.





Event: Conducted class wise wall magazine competition in odd semester 2019 for I year BE students. The charts were displayed on the notice board fortnightly.



FACULTY ACHIEVEMENTS

Number of Papers Workshops/ **Online** publications Conferences presented in Seminars/ in courses International **Technical talks** 01 International conference **Journal** 28 03 03

Papers presented in International conference

- Dr Vincent Crasta presented a research paper titled "Advancement in Structural, Morphological and dielectric Studies of PVA filled TiO2 and ZnO nanocomposites", B Gananatha Shetty, Vincent Crasta, K Rajesh, International Conference on Multifunctional Materials (ICMM-2019), Geethanjali College of Engineering and Technology, Hyderabad, Telangana, India 19-21 December 2019
- Mr Rajesh K presented a research paper titled "Effect of ZnO Nanofiller on Dielectric and Mechanical Properties of PVA/PVP Blend" in the "International Conference on Advanced Materials" (ICAM 2019) at Nirmalagiri College Kannur on 13 June 2019.



3. **Mr Rajesh K** presented a research paper titled "Effect of Copper Oxide nanofillers on PVA/PVP Blend, Rajesh K, Vincent Crasta, Gananatha Shetty B, International Conference on Multifunctional Materials (ICMM-2019) Geethanjali College of Engineering and Technology, Hyderabad, Telangana, India 19- 21 December 2019



Message from the HOD

It gives me immense pleasure to express my warm greetings and felicitation to all inmates of SJEC through ABHIYAANA 2020 and feel immensely happy to salute the creativity and aesthetic sensibilities of budding writers.

We, educators being facilitators always encourage our students to grow into human beings who are capable to face the challenges of the present world and to develop in their special field of interest. Each student has his own individuality and special skills. All students do not have the same talent and so each one will achieve success differently. Always and in every field, honestly do the best you can and nobody can stop you from being successful.

I join with the staff of our department to wish all the outgoing students of 2020 batch in their endeavor to achieve their goals.

I congratulate the Editorial Board of 'ABHIYAANA-2020' as an appreciation for the commendable efforts put forth by the team to bring out this excellent magazine in a pleasant format.

Dr K. Jyothi Professor & HOD



CHEMATOM ACTIVITIES



Event: Industrial visit to Mangalore Chemicals and Fertilizers (MCF) Panambur.

Date: 10 June 2019.

Outcome: Association members were taken to the Department of Health and Safety and various precautionary measures related to Health, Safety and Environment, setup in MCF was explained.

Event: Student outreach programmes to Government High School, Moodushedde and Phalguni Higher primary School, Mallur was organized by the Department of Chemistry under the banner of ChemAtom association.

Date: 3 August 2019 and 22 February 2020.

Objective: To enhance the knowledge of Chemistry by conducting a few experiments mentioned in their syllabus with the help of faculty members and BE students.



Event: Technical talk on "WASTE MANAGEMENT AT HOME"

Resource persons: Dr G. Srinikethan, Professor (Rtd.), Department of Chemical Engineering, NITK, Surathkal and Mr Kiran Vati K, Faculty & Research Associate, Department of Zoology, St Aloysius College, Mangaluru.

Date: 3 October 2019.





Event: "Avishkar-2019" Project Exhibition & Technical Awareness Programme.

Date: 31 October 2019.

Objective: The event was organized for the High School and PU Science students of Schools and colleges in Mangaluru along with a technical awareness programme

DEPARTMENT PROGRAMME

Event: Training Programme for Father Muller Medical College Hospital (FMMCH) Staff

(MOU between SJEC and FMMCH for chemical management dated 27/6/2018)

Date: 04 December 2019.

Target Audience: Faculty of Father Muller

Medical College Hospital.

Objective: Training on Management of Hazardous

Chemicals.



FACULTY ACHIEVEMENT

Dr K Jyothi received the BEST POSTER award for her paper on "Synthesis, structural studies and DFT Calculations of bioactive sulfonamide derivatives" at a three day international conference on "Advances in Chemical and Materials Sciences (ICCM -2019)" organized by the Department of Studies in Chemistry, Mangalore University, Mangalagangothri from 17th October 2019 to 19th October 2019.



Papers Presented at National/ International Conferences

3

Workshops/ FDPs attended

30

Online courses

7





Message from the HOD

Education without values, as useful as it is, seems rather to make man a more clever devil." — C.S. Lewis

Keeping in mind the above said lines, our faculties have got training to teach human values .We teach human values with a well designed curriculum in every semester to our students. We have observed that students are practicing these values. They give respect to elders and they love other human beings.

We have adopted Outcome Based Education (OBE) where each component of course has a specific outcome which can be measured and has some contribution to Programme Outcomes (POs). These POs are international standard attributes which is essential for a graduate. With that, we prepare our students work and live in any part of the world.

I congratulate the editorial board for their hard work and dedication in bringing this wonderful magazine.

Dr Ramananda H S

Professor & HOD



DEPARTMENT ACTIVITIES







Students with a decorative item prepared using tissue paper

The Department of Mathematics under the SIGMATHS Association conducted a competition on 'Best out of waste' for the students of first and second year BE on 26 October 2019 from 3pm to 5pm in the First Floor, Academic Block III. Many teams registered and participated in the competition. A variety of creative articles were made by the students with waste water bottles, ragged jeans, paper cups, paper tissues etc. A lot of physics theory was used to dispense water using waste water bottles. A bag was being prepared with ragged jeans. Decorative items were prepared by the teams. On the whole students participated enthusiastically.

Winners: First place: Anjusha C L & Dhanyashree H K

Second place: Mohammed Afthab, Edwin Roy & Ashwith Shetty



Resource person guiding the students



Students engrossed in the session

The Department of Mathematics under the SIGMATHS Association conducted a hands-on 'Session on ORIGAMI' for the students of BE on 13 April 2019 from 2pm to 4pm in the Sophia Chamber, First Floor, Academic Block III. Dr Adelaide Saldanha, Professor and Head of the Department of Mathematics, St Agnes College, Mangaluru was the Resource Person. She was assisted by her son Mr Prasad D'Sa who also took up a session on origami. Origami is an art of paper folding using the basic concepts of mathematics. The goal is to transform a flat square sheet of paper into a finished sculpture through folding and sculpting techniques. These designs begin with a square sheet of paper whose sides may be of different colors, prints or patterns. The principles of origami are also used in stents, packaging and other engineering applications. Students actively took part in the session and prepared various models using mathematical techniques.

FACULTY ACHIEVEMENTS



BEST PRACTICES

- Periodical meetings with the faculty to discuss about students problems in academics and other facilities.
- Monitoring attendance of the students, warning students and sending information about attendance shortage to the parents by registered post
- Conducting remedial classes for slow learners, lateral entry students and students failed in semester examinations
- Encouragement for the faculty to become Internationally certified Engineering Educator
- Individual guidance to the students who are interested to write GATE examinations in Mathematics part of the question paper
- Project guidance and Internship Guidence to PG Mathematics students through MOU
- Slow Learners Classes, Lateral Entry Classes, VACT- Aptitude classes





Message from the DEAN-MBA

In this era of competition, it is of paramount importance to be equipped with knowledge, skills and values for holistic development. Creativity and critical thinking have become the order of the day. Needless to mention that defining goals and working towards to achieve these goals is the necessity. Smart work is the key to success.

The corona virus (Covid-19) pandemic abruptly reminded us how volatile, uncertain, complex and ambiguous (VUCA) the future is and will inevitably continue to be. VUCA won't be getting easier. Leaders must accept this reality. The VUCA world will have both danger and opportunity. I am confident that Josephites will be positive change agents in the midst of chaos.

The annual magazine of the college is a mirror of college life. Abhiyaana 2020 reflects the literary, academic, sports activities and important events celebrated in the college during the academic year 2019-20. The editorial team under the able leadership of faculty of SJEC Ms Smitha D'Souza, Ms Rupal D'Souza and Ms. Supriya Salian demonstrated professionalism in bringing out Abhiyaana 2020. To the batch of 2020,I wish you all happiness. I hope you will make SJEC proud.

Dr Prakash Pinto Professor & Dean



DEPARTMENT ACTVITIES



Zephyr-2019

Zephyr-2019, 'INFINITO'- 'Rise to Eternity', a National Level PG Management Fest

Date: 4th April 2019.

Chief Guest: Mr Dheeraj Shetty, GM-HR, IR and Admin at JBF Petro Chemicals Ltd,

Mangaluru

Outreach Programme to Government Pre-University College, Belman

Event: Outreach Programme

Faculty In-Charge: Dr Anjali Ganesh

Place of Visit: Government Pre-University

College, Belman **Date:** 24th April 2019





MBA special lecture series

Event: Special Lecture Series

Resource Person: Mr Eugine D'Cunha, Advocate, Mangaluru

Topic: Consumer Disputes & Redressal

Date: 26th April 2019

Content: Discussion on unfair trade practices, misleading advertisements & procedure of filing a case in consumer court.

Project Poster Competition (as part of the Technova-2019)

Date: 20th May, 2019.

Judges: Dr Vincent Crasta, Professor and HOD - Physics, SJEC and Mr Ajaya, Government First Grade College,

Mudipu.





Webinar on 'Three Ways to Improve Communication'

Date: 4 June 2019

Audience: I year MBA students

Resource Person: Pamela A. Scott, Executive

Coach to CEOs and Business Owners

Capacity Building Programme (CBP) on "Introduction to CANVAS-LMS"

Date: 12th July, 2019

Resource Person: Mr Ragesh Raju, Assistant Professor, Department of Computer Applications,

SJEC.

Objective: To cover all aspects of LMS and to use it for effective teaching through practical sessions.





Outbound training program at Talacauvery, Madikeri

Participants: Second year MBA students

Date: 30th - 31st October, 2019

Resource person: Mr. Venkat Ramani, Cool Guru LLP

Objective: Train the students to apply strategic methods to solve business problems to become a successful entrepreneur.

Alumni Interaction

Alumni - Ms. Zeeba Naaz (batch of 2010-12) Lead-Talent Acquisition at Phoenix Global DMCC, Hyderabad

Date: 14th August, 2019

Audience: 2nd year MBA Students

Content: To network with their seniors through various sources like LinkedIn that will help them to identify various avenues for finding suitable jobs.





MDP on 'Managing an Institution for Clergy and Religious'

Date: 29 August 2019

Chief Guest: Fr Ravi Sagar SJ Advocate, Supreme

Court & Delhi High Court

Event- Alumni interaction

Date: 11th September 2019

Alumni: Ms.Sharon Ancita Lobo (Batch of 2017-18) Audit

Associate, KPMG Global Delivery Center, Bangalore.





Rendition-19, A National Level Paper Presentation Contest and Productive Dialogue Competition

Date: 25th September 2019

Chief Guest: Dr Arun A B, Professor & Deputy Director (QAC) at

Yenepoya Research Centre, Mangaluru.

Event- Special Lecture Series

Topic- "Critical Vs Creative thinking"

Date: 27th September 2019.

Resource Person: Dr Juby Thomas,
Assistant Professor, Department of
Journalism, Kristu Jayanti College, Bengaluru.

Content: linsight on critical thinking and its impact on enhancing the skills of individuals



Event-Flash Mob and a Thematic Mime show

Date: 18 October 2019

Location: City Centre Mall, K S Rao Road,

Mangaluru.

Objective: The event was organized with a view to spread awareness about benefits of waste segregation and impact of climate change among citizens of Mangalore





Event- "Genesis" Association Inauguration

Date: 23rd November 2019

Chief Guest: Mr Rabeez Yususf, Entrepreneur and Managing Director, Cleaners HomeMaid

Event-Special Lecture Series

Topic: "Certification Courses in Finance and Opportunities in Financial Services Sector"

Date: 17th December 2019.

Resource Person: Mr Hilary D'Souza, Senior

Training Manager, Aditya Birla Capital.





Outreach Programme - Christmas Celebrations at 'Bhagini Samaj', Mangaluru

Date: 14th December 2019.

Objective: To realize that one must contribute and understand his/her social responsibilities

towards society

Event- FDP on 'Legal Issues in Business'

Date: 9 & 10 January 2020.

Resource Persons: Prof Lionel Aranha, CA Naveen

and Mr Ulhas Bhat

Objective: To gain more insight into Contracts, Insolvency and Bankruptcy Code, Arbitration and Conciliation, and Companies Act, 2013 which has become essential to college teachers as these legal issues have far-reaching implications in their teaching and learning





Event- Alumni Interaction

Date: 13th March 2020

Alumni: Mr Austin Noronha (Batch-2017-18), Assistant

Manager- Sales, Cinepolis India Pvt.Ltd. Mangaluru,

Content: He explained the challenges and skills required

to convert a potential lead to sales.

BEST PRACTICES

- Industry Certifications on Data science and Digital marketing by KPMG and Google.
- 100% placement support through our industry partners- Cocubes and JV Global.
- Certification programs on IT for business conducted by domain experts from the engineering department.
- Enhancing employability and life skills through V-ACT and 'Feel Employable' training sessions by In-house experts and CLHRD professionals.
- Bridging Industry-Academia skill gap through organizing Expert talks by Industry persons on a wide range of Management issues.
- · Continuous alumni student interaction to appraise the latest trends in the industry.
- Organising Management Development Programs on the emerging areas in business for improving productivity at the workplace.
- Bettering managerial and intellectual skills of students through organising Management fest, Student Conference and Business plan contest.
- · Initiating Mini research projects for MBA students to equip them with research and analytical skills.
- Nurturing social, ethical and moral values of MBA students through community engagement, outreach programme and volunteering.

FACULTY ACHIEVEMENT

Webinar Conducted by Faculty

Mr Vinish P has organised a webinar on the topic "Data Science: Breaking Down the Silos" by Mr Amit Choudhary, Assistant Manager, Business Excellence-Management Consulting, KPMG as the resource person on 30th June 2020.



Prakash Pinto, Iqbal Thonse Hawaldar, Guruprasad Kemminje, Babitha Rohit, Cristi Marcel Spulbar, Felicia Ramona Birau, Cristian Valeriu Stanciu (2020) published paper titled "The Impact of Risk Anomalies on the Pharmaceutical Sector of the Indian Stock Market. A comparative analysis between pharmaceutical, FMCG and IT companies" in the journal "Revista de Chimie", March, 71(2), 58-63. https://doi.org/10.37358/RC.20.2.7892 [ISSN Print 0034-7752,ISSN Online 2668-8212] with the impact Factor 1.755.





Student Speaks...

SJEC has been a great contributor to the development of my personality. I have established my leadership, time management and team skills and have also been able to advance these skills to the whole new augment level. The faculty here is with an attitude of being ever ready to help, and not only delivering classroom teachings, but they are also the pillars of the learning and this is a treasure for life. The best thing about being a student here is the number of additional opportunities that are available. MBA programme offered by SJEC aims to provide fair and equal access to everyone. Students here are provided with mentors who focus on personal grooming. Apart from the lush green campus backed by astonishing infrastructure, College and the Department gave me a lead with a lifelong career excellence. From the very supporting faculties to excellent pedagogy, all helped me enhance my skills to the optimum and is still inspiring me to never give up. My education at SJEC, MANGALORE was an experience for lifetime and will stay with me forever. Many Outreach programs, soft skills development, Cultural fests, Inter/Intra College fests gave us a chance to apply theoretical knowledge into practice and also friendly environment to start an excellent career with proper guidance into corporate world.

GREAT COLLEGE AND GREAT ATMOSPHERE.

PONNAPU REDDY PRAVALIKA II MBA



STUDENT ACHIEVEMENTS

STUDENTS ACHIEVEMENT IN FEST



Glen Prajwal D'Souza and Nikitha Clera D'Souza, students of 2nd year MBA has won First place in ERUENDOS(MINING INDUSTRY) INSIGNIA-2019, A National Level B-School Management Fest held on 23rd and 24th October 2019 organised by St Aloysius Institute of Management and Information Technology (AIMIT), Mangaluru.

Mohd Abrar & Lukhman Sheikh, of I year MBA secured the Second Place in SAMARTHYA (Marketing Event) at the National Level Management Fest 'Shriyans-19' organized by Srinivas Institute of Technology, Mangaluru on 24th & 25th October 2019.



Varsha C & Nikitha Zipporah Misquith, secured Runners up in 'MANASA MANTHANA-2020' A National Level Paper Presentation and Business Plan Contest on "Sustainable Rural Development" organized by AIMIT, St Aloysius College, Mangaluru on 25th February 2020.





Pravalika Reddy & Rishi M K, secured the First Place in Marketing Event, at the National Level Management Fest 'Elixir-2020' organized by A J Institute of Management, Mangaluru on 19th & 20th February 2020.

Alumni Message...



There are very few institutes which provide quality education and one among them is St Joseph Engineering College. I graduated as Master of Business Administration from SJEC in the year 2017. The college has played a vital role in changing my life and making me realize my capabilities.

The college provides ample opportunities for young minds to shine in the world. The journey of achieving success is not easy but SJEC makes sure that every student has his or her goals and drives them to achieve those goals and makes them a better person. Education is not just about books, lectures and exams but quality of education and how we put them to use in the real world is what I have learnt from SJEC.

My journey began when I got placed in banking sector, but I had a feeling that I am capable of achieving more and hence moved to UAE and currently working passionately in one of the reputed IT Security distribution company as Human Resource which is one of my dream job.

The journey was not easy. I faced several obstacles but SJEC has prepared me to face those obstacles and I am grateful about it. I am very thankful to the faculty of Business Administration, Principal, Director and the Institute for making me a better buman being and making me ready to shine in the world.

THANK YOU SJEC.

Johnson Stephen Mascarenhas MBA - CLASS 2017



Message from the HOD

The Department of Computer Applications offers MCA course with a mission to meet the global needs and challenges through training of professionals who can work with interest to support the society. The department has a team of experienced and motivated faculty members who are in process of tuning the young minds to make them globally competitive. The strength of the department is highly motivated students who understand the dynamics of the industry and upgrade their skills accordingly.

Learning is a continuous process and does not end with getting a degree because of the rapid advancements in computing technologies. Therefore our students are given a strong foundation in computer science and problem-solving techniques, and are made adaptable to changes. We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training equips our students to handle the challenges posed by the software industry.

I extend my best wishes and greetings for the release of our college magazine 'Abhiyaana' which is a forum used for recording events, fond memories and creative writing. I congratulate the editorial team for making 'Abhiyaana' innovative and inspiring and all the students and staff coordinators who have made untiring efforts to bring out this magazine. I wish them all success

Ms Sumangala N Assistant Professor & Incharge HOD

DEPARTMENT ACTIVITIES



Event: FDP on "Google Suite for Education" for Faculty of Father Muller Medical College, Mangaluru

Date: 22 & 23 November 2020

Resource Person: Mr Ragesh Raju, Assistant

Professor, MCA, SJEC

Event: Swachatha Abhiyaan by the MCA Department at Mallur Village

Date: 31 October 2019





Event: Joshiana 10.0, a 2 Day National Level IT Fest organized by "TechnoCrats", the Student Association of MCA Department

Date: 26 & 27 September 2019

Chief Guest: Mr Sripada Hebbar, Principal Technical Architect, Robosoft Technologies Pvt Ltd, Udupi



Event: Inauguration of PG Courses

Date: 30 September 2019

Chief Guest: Dr K Sankaran, Director of Justice K S Hegde Institute of Management (JKSHIM)

Event: Workshop On Scopus & Mendeley: Tools For Empowering Research

Date: 21st September 2019

Resource Person: Prof Shivaram B S, Information Scientist, Council for Scientific and Industrial Research-National Aerospace Laboratory (CSIR-

NAL), Bengaluru





Event: TechPrints 7.0, a National Level Technical Paper Presentation Competition

Date: 4th April 2019

Chief Guest: Mr Praveen Udupa, Founder & Technical Director, A1 Logics, Mangaluru

FACULTY ACHIEVEMENTS











IGIP International Engineering Educator Certification

Mr Sathyendra Bhat J & Mr Ragesh Raju has been awarded with the title "IGIP: International Engineering Educator" by the International Society for Engineering Pedagogy.

STUDENT ACHIEVEMENTS

- Overall Runners-up Award at the National Level IT Fest conducted by Kristu Jayanti College, Bengaluru
- Overall Runners-up Award at the National Level IT Fest conducted by ShreeDevi Institute of Technology, Kenjar, Mangaluru
- Prajwal Charles Mascarenhas, Brill Brenhil & Vijay Lobo from III Year MCA has presented a paper titled "Hiding Personal Detail Using Overlapping Slicing" at Dataspectrum National Technical Paper Presentation Competition.





DEPARTMENT OF PHYSICAL EDUCATION

MESSAGE

SJEC has been providing ample opportunities & facilities to staff & students to succeed in academics, sports, and cultural fields. Through the Department of Physical Education college facilitates students not only to excel in sports, but also to live an active life and to stay fit and healthy. Staying active helps to reduce stress and increase relaxation.

"You don't stop playing because you grow old; you grow old because you stop playing!!!". To cultivate an active lifestyle among the staff and students, the college conducts various intramural competitions. This builds team spirit, planning, leadership and so on.

A dream does not become reality through magic; it takes sweat, determination, and hard work. I am proud to pen down the achievements of students in sports and games who have achieved it through their dedicated hard work.

Ms Vaneesha V Rodrigues

Physical Education Director



SPORTS AND GAMES REPORT 2019-20



CHESS (MEN):

SJEC Men's team participated in VTU Rest of Bengaluru Zone Chess Championship held at SJMIT, Chitradurga on 18 – 19 August 2019. The team secured **Fourth Place** and was selected to represent Inter Zonal Championship. In VTU Inter Zonal chess championship held at SJMIT, Chitradurga on 20 - 21 August 2019 our team was positioned ninth in the chess championship.

CHESS:

Ms. Vaneesha V. Rodrigues Asst. Physical Education Director of our college was the selection committee member of the VTU Men & Women Chess team for the year 2019-20 at SJMIT, Chitradurga from 20 - 22 August 2019.





SHUTTLE BADMINTON (M&W):

SJEC Men's and Women's team participated in VTU Mangaluru Zone Shuttle Badminton Tournament held at NMAMIT, Nitte on 24th August 2019.



NITK DIAMOND JUBILEE CUP:

SJEC Men's Table Tennis & Chess teams participated in NITK Diamond Jubilee Cup Chess & Table Tennis at NITK, Surathkal from 4th to 6th October 2019. The Table Tennis team secured **II Runners up** and Chess team secured **III Runners** up in the tournament.



WRESTLING & JUDO (M&W):

SJEC Men's team participated in VTU Single Zone Wrestling & Judo Championship organized by SJCIT, Chikballapur on 6th & 7th September 2019. The College wrestling team bagged the **Third Place** in Overall Wrestling Championship.





Mr Thejas H, II Year MCA secured First Place in below 61kg category Wrestling Championship.



Mr Muhammad Fayaz, IV Year Mechanical Engineering secured Third Place in below 92kg category Wrestling Championship.



Mr Mohammed Ismail Jaseem, I Year Mechanical Engineering secured Second Place in below 57kg category Wrestling Championship.



Mr Sharul Jose, III Year Civil Engineering secured Fourth Place in below 70kg category Wrestling Championship.



Mr Nibin Binu, III Year Mechanical Engineering secured Third Place in below 97kg category Wrestling Championship.



Ms Venilla Manikanta, III year Civil Engineering secured First Place in below 44kg category Judo Championship.

BASKETBALL (MEN):

SJEC Basketball team participated in VTU Mangaluru Zone Basketball Tournament held at NMAMIT, Nitte on 17th September 2019 secured **3rd Place** in the tournament.





DASARA WRESTLING (MEN):

Mr Thejas H, II Year MCA participated and secured **Second Place** in below 57 kg category in Dasara State Level Wrestling Championship held at Mysuru on 30th September 2019.

DASARA BEST PHYSIQUE (M):

Mr A. Dhanush, III year Mechanical Engineering secured **Second Place** in below 55 kg category in Dasara State Level Best Physique Championship held at Mysuru on 1st to 4th October 2019.





THROWBALL (WOMEN):

SJEC Women's Throwball team participated in VTU Mangaluru Zone Throwball Tournament on 3rd October 2019 at SCEM, Adyar. SJEC women team secured **3rd Place** in the tournament and **Ms Sujani** of II year CS was awarded **Best Receiver award** of the tournament.

SOUTH ZONE INTER UNIVERSITY WRESTLING CHAMPHOCKEY TOURNAMENT:

Sanjay Jacob George IV year Mechanical Engineering represented VTU in South Zone Hockey Tournament to be held at Bengaluru Central University, Bengaluru from 11th & 16th October 2019.



WEIGHT LIFTING AND BEST PHYSIQUE (MEN)

SJEC Men Best Physique Team participated in VTU Single Zone Inter Collegiate Weight Lifting & Best Physique Championship held at Sri Sairam CE, Bengaluru, on 14th and 15th October 2019.



- Mr A. Dhanush, III year Mechanical Engineering secured First Place in below 60 kg category Best Physique Championship
- Mr Ganesh K J, III year Mechanical Engineering secured Third Place in below 80 kg category Best Physique Championship.



VTU INSTITUTIONAL CASH AWARD:

Our College was awarded a VTU Institutional Cash Award of Rupees One Lakh for Sports and Cultural Activities for the year 2017-2018 at Ramaiah Institute of Technology Bangalore on 19th October 2019.







ATHLETICS (MEN & WOMEN):

SJEC Athletic Men's & Women's team participated in VTU Single Zone Inter-Collegiate Athletic Meet 2019 held at GNDCE, Bidar from 22nd to 25th October 2019.

Ms. Melitta Sneha Lewis IV year CS has secured Second Place in 800 mtr and Third place in 400 mtr.

POWERLIFTING (MEN):

SJEC Men & Women Powerlifting team participated in VTU Single Zone Powerlifting Championship on 30th & 31st October 2019 at NMAMIT, Nitte.

Mr Aren Joy Fernandes, I Year E&C Secured 1st Place in below 66kg category with 4 New Meet Record by lifting Squat 200 kg (NMR), Bench press 122.5kg, Dead lift 230kg total 552.5kg (NMR).). He won the VTU strongest man Tiltle.

Mr Joshua IV Year E&C Secured **3rd Place** in below 105kg category by lifting Squat 172.5 kg, Bench press 95kg, Dead lift 195kg total 462.5kg.

Ms Melitta Sneha Lewis IV year CS has secured **Second Place** in below 47kg category by lifting Squat 40 kg Bench press 27.5kg, Dead lift 82.5kg total 150kg.











NETBALL (M):

SJEC Men Netball team participated in VTU Rest of Bengaluru Zone Netball Tournament held at VDRIT, Haliyal on 9th & 10th November 2019.

TABLE TENNIS (M&W):

SJEC Men and Women Table Tennis team participated in VTU Mangaluru Zone Table Tennis Tournament held at AJIET, Mangaluru on 16th November 2019. SJEC Men team secured **Runners up** in the tournament. Men Table Tennis team participated in VTU Inter Zone Table Tennis Tournament held at BMSCE, Bengaluru on 26th &27th November 2019.





POWERLIFTING (MEN):

Mr Aren Joy Fernandes, I Year E&C Secured 2nd Place in National Level Raw Powerlifting Championship held on 8th & 9th October 2019 at Kerala and Qualified to Represent India in Asian Classic Power Lifting Championship. Secured 1st Place in State Level Junior ans 2nd Place in State Level Senior Bench Press Championship held at Ballalbhagh, Mangaluru on 8th &9th November 2019. Also secured 1st Place in International Level Squat and 2nd Place in Dead Lift and 1st place in Overall Powerlifting Championship in Asian Classic Powerlifting Championship held at Kazakhstan from 2nd to 8th December 2019.

ALL INDIA INTER UNIVERSITY WRESTLING CHAMPIONSHIP:

Mr Thejas H, II Year MCA Represented VTU in All India Inter University Wrestling Championship held at Guru Jambheshwar University of Science and Technology, Hisar (Harayana) from 14th to 18th November 2019.





SOUTH ZONE INTER UNIVERSITY CHESS CHAMPIONSHIP (WOMEN):

Ms Ivana Maria Furtado of II year Civil Engineering represented VTU in All India South Zone Inter University Chess Championship held at Acharya Nagarjuna University Nagarjuna Nagar, Guntur, Andhra Pradesh on 22nd to 25th November 2019.

INCIDENT - 2020 VOLLEYBALL (MEN):

SJEC Men's & Women's Volleyball team participated in NITK Incident-2020 Volleyball Tournament held at NITK Surathkal on 28th & 29th February 2020 and Men team secured **2nd Runners up** in the Tournament.





VOLLEYBALL (MEN):

SJEC Men's Volleyball team participated & secured **Runners up** in VTU Mangaluru Zone Men's Volleyball Tournament held at VCET, Puttur on 5th March 2020 and participated in VTU inter Zone Volleyball Tournament held at SDMCIT, Dharwad on 9th March 2020.



DISTRICT BODY BUILDING CHAMPIONSHIP:

Mr A. Dhanush, III year Mechanical Engineering secured Second Place in District Body Building category & Third Place in District Bermuda Model Category Championship and Mr Alvish Astle Correa III year Civil Engineering secured First Place in District Bermuda Model Category at MDS Padil, Puttur on 7th March 2020.





VOLLEYBALL (WOMEN):

SJEC women's Volleyball team participated in VTU Rest of Bangalore Zone Volleyball Tournament held at JNNCE, Shimoga on 12th March 2020.



INDEPENDENCE DAY CELEBRATIONS – 2019

Rains gave way as SJEC welcomed India's 73rd Independence Day with its traditional celebrations held in front of the administrative block.

Leaders of the Institution, Deans, Heads of the Departments, Faculty members, Staff, Security Team and Students gathered in good numbers to celebrate the 73rd year of freedom from the clutches of colonial rule. The celebrations commenced with a medley of patriotic songs that kindled the nationalistic spirits in all present.

Colonel Nitteguthu Sharath Bhandary, Veteran President, All Karnataka Rubber Planter's Association graced the occasion as Chief Guest.

The Director of the Institute Rev. Fr Wilfred Prakash D'Souza along with Chief Guest, felicitated the winners of the Independence Day competitions.

The celebrations concluded with wishes all around, sweets all around, and the pride of being an Indian all around!





REPUBLIC DAY 2020

The 70th Republic Day of our Nation was celebrated in SJEC at 8:30 am in front of the Administrative Block. Rev Fr Alwyn Richard D'souza Assistant Director, SJEC graced the occasion as Chief Guest. Rev. Fr Rohith D'Costa, Assistant Director – SJEC, Dr Rio D'Souza, Principal – SJEC, were the other dignitaries present on the occasion.

The celebrations began with a beautiful rendition of Petriotic song by Ms Elrica & group. The Chief Guest, Rev Fr Alwyn Richard D'souza, then hoisted the National Flag and gave away the message of the day. The Security Personnel of SJEC led the gathering in saluting the National Flag and rendering of the National Anthem.

The function concluded with distribution of sweets.





CENTRAL LIBRARY

Member of VTU Consortium, DELNET & National Digital Library

MESSAGE

The essence of knowledge lies in a spirit of creative thinking, expression and experimentation. In this regard the college magazine "ABHIYANA" play a vital role as a platform for the students & think, reflect, create and innovate in a multitude of languages and literary genres. The magazine is indeed a precious document that preserves the words and vision of our talented students as budding poets, writers and thinkers. It is a significant milestone in their creative journeys and inspires them to aspire higher.

I congratulate the editorial team of the magazine and appreciate their dedication.

Dr Felcy D'Souza Librarian



HIGHLIGHTS

• E-Resources • SCOPUS • TURNITIN – Anti Plagiarism Software • Shodhganga – ETD's (INFLIBNET) • Online Library Catalogue • E-Question papers • Grammerly • NPTEL/SWAYAM • Digital Library • Knimbus Remote Access • Mobile Library App • Library Automation, Barcode and Wi-Fi Technology • Reader's Club • E-Learning Centre • CCTV Surveillance System

LIBRARY ORIENTATION AND DEMONSTRATION

Dr Felcy D'Souza, Librarian provided orientation and demonstration on "Library Resources, Services and Facilities" for the audience as mentioned below

- Freshers of UG program of the academic year 2019-20 from 1st to 2nd August 2019.
- Freshers of MCA and Lateral Entry Students of the academic year 2019-20 on 1st October 2019.
- Freshers of MBA Students of the academic year 2019-20 on 3rd October 2019.
- Newly joined teaching faculty on 24th August 2019.



WORKSHOPS / TRAININGS / COMPETITIONS



The Library Advisory Committee, St Joseph Engineering College in collaboration with VTU Consortium, VTU, Belagavi organized "VTU Consortium Training Programme on E-Resources for Academic Excellence" for faculty, students and researchers on 20th September, 2019 at Bishop Aloysius Paul Conference Hall, SJEC. Dr. Khaiser Muneebulla Khan, Retired Professor & Chairman, Department of Library & Information Science, Mangalore University, Chief Guest and Dr K.R.Mulla, University Librarian, VTU, Belagavi was the Guest of Honour. The Representatives from e-resource

publishers such as Springer, Taylor & Francis, Turnitin, Elsevier Science Direct. Knimbus, ICE, McGraw Hill, Emerald, Sententia and New Age International delivered their presentations on the e-resources. A tribute to Dr. S. R. Ranganathan on National Librarian's Day was offered and Mobile Library App was released during the programme. A total of 196 students, faculty members and research scholars participated in the programme.

The Library Advisory Committee of SJEC in association with Department of Computer Applications organized a one day workshop on "Scopus & Mendeley: Tools for Empowering Research" on 21st September 2019. A total of 65 faculty members and research scholars pursuing research under SJEC research centre participated in the workshop. Prof Shivaram B S, Information Scientist, Council for Scientific and Industrial Research-National Aerospace Laboratory (CSIR-NAL), Bengaluru was the resource person.





Library Advisory Committee organized a "Book Review Activity" on the book titled "The Power of Positive Thinking by Norman Vincent Peale" under its Reader's Club initiative to the students of all disciplines on 24th and 25th of February 2020. The number of students participated in this event are 20. The winners of the event are Ovin Rodrigues, 4th Sem CV (1st Prize), Aronstun R D'Souza, 6th Sem CS (2nd Prize) & Pallavi S Poojary, 6th Sem EE (3rd Prize).

The Library Advisory Committee compiled and edited the Third Volume of the "Compendium of Research Publications 2018", published by SJEC released on 30th September 2019.



BEST USER AWARD

Based on the monthly Library Awareness Quiz, the best user award was bagged by **Keerthana Bhanderkar**, 8th Sem EC and **Anisha D'Souza**, 4th Sem CS.

LIBRARY SERVICES ESTABLISHED

- NetAnalytiks Sententia Grammar Writing Tool on 10th May 2019
- Knimbus Remote Access Portal in 1st May 2019
- Mobile Library App to access
 E-Resources on 6th June 2019
- Turnitin Anti Plagiarism Software on 31st May 2019

WORKSHOPS/STAFF DEVELOPMENT PROGRAMMES ATTENDED

- Dr Felcy D'Souza, Librarian participated in Three Days National Conference on "Innovation in Libraries" organized by LIS Academy and Department of Public Libraries, Bangalore at VTU Belagavi 6th-8th June 2019.
- Ms. Geetha & Ms. Preethi, Library Assistants attended one day workshop on "Easylib software and Digital e-Resources" held on 24th July 2019 organized by the Central Library of SMVITM in association with Easylib software Pvt. Ltd. Bengaluru at Bantakal, Udupi.
- Dr. Felcy D'Souza, Librarian & Library Staff attended VTU
 Consortium Training Programme on "E-Resources for Academic
 Excellence" held on 20th September 2019 organized by the Library
 Advisory Committee SJEC in collaboration with VTU Consortium,
 VTU, Belagavi at Bishop Aloysius Paul Conference Hall, SJEC
- Dr. Felcy D'Souza, Librarian & Library Staff attended workshop on "Scopus & Mendeley: Tools for Empowering Research"held on 21st September 2019 organized by the Library Advisory Committee in association with Department of Computer Applications, at Bishop Aloysius Paul Conference Hall, SJEC
- Dr Felcy D'Souza, Librarian and Library Staff participated in "FEEL Teacher- Developing, Counseling, Mentoring Learning and Development Intervention", organized by SJEC in association with College for Leadership and HRD, Mangaluru, at Bishop Aloysius Paul Conference Hall, SJEC on 18th January 2020.

SJEC Extra Vaganza



Inauguration of First Year BE Classes 2019-20

St Joseph Engineering College (SJEC), Mangaluru inaugurated its UG Courses for the year 2019-20 on August 10th 2019. Mr Suraj Chetri, Head of Human Resources, Airbus India, Bengaluru was the Chief Guest for the program. Dr Rio D'Souza, Principal addressed the gathering and highlighted the role played by SJEC in delivering the technical education with discipline as its core value. Rev Fr Wilfred Prakash D'Souza, Director SJEC presided over the function. Rev Fr Rohith D'Costa and Rev Fr Alwyn Richard D'Souza, Assistant Directors were present during the occasion. Dr Ramananda H S, Head of Mathematics department and First year Coordinator delivered the vote of thanks.



Inauguration of First Year PG Classes 2019-20

St Joseph Engineering College (SJEC), Mangaluru inaugurated its PG Courses for the year 2019-20 on 30th September 2019. Dr K Sankaran, Director of Justice K S Hegde Institute of Management (JKSHIM) was the Chief Guest for the program. Dr Prakash Pinto, Dean of MBA at SJEC welcomed the gathering and introduced the Chief Guest. The rank holders from MBA and MCA through PGCET

who joined SJEC this academic year were felicitated by the Chief Guest. Dr K Sankaran in his inaugural speech stressed on respect for teachers, to unlearn the learning so as to improve oneself, ask questions to clarify doubts, open multiple fronts for learning and to always have positive thoughts.









FOUNDATION DAY -2020

Commemorating the Nineteenth Anniversary of laying the foundation stone of St Joseph Engineering College (SJEC), the Ninth Annual Foundation Day Lecture was held on 11th February 2020 at 3:30 PM in the Prerana Auditorium of the college. Mr Deepak Gadhia, a Social Entrepreneur and Chairman of Sunrise CSP India Pvt Ltd, delivered the Foundation Day Lecture on the topic "Evolution of Solar Concentrator: Journey of Social Entrepreneur in Innovations in Solar Energy".

In his lecture, Mr Deepak Gadhia shared the challenges involved in the life journey of an entrepreneur. While saying an individual can achieve anything with limited opportunities, he remarked that an engineer's job is to solve problems rather than look for readymade solutions.

Dr Rajesh Kumar PC, Associate Professor, Department of Physics moderated the lecture. Ms Supreetha R, Assistant Professor from the Department of CSE, was the Convener of the event. Ms Eden Sequeira, compeered the program.

The day also witnessed SJEC felicitating Ms Mahima S Rao for securing the First Rank in Civil Engineering and a record tally of 13 gold medals for the academic year 2018-19 in the University Examinations conducted by VTU, Belagavi.









Rev. Fr Wilfred Prakash D'Souza- Director, Rev. Fr Rohith D'Costa – Assistant Director, Rev. Fr Alwyn D'Souza - Assistant Director, Dr. Rio D'Souza – Principal were the members present during the function.

Dr Jyothi, Head of the Department of Chemistry, was the Chief Guest for the function.











MILAN - 2019

MILAN 2019 – A Cultural Confluence, a joint celebration of Nativity of Mary, Onam, Krishna Janmastami and Eid was held with great fervor at SJEC on 19 th September 2019. The inhabitants of the college campus were welcomed with a colourful "Pookalam" designed by the contingent of Keralite students at the Administrative Block Quadrangle. The Management, Faculty members, Staff and Students of SJEC gathered in the quadrangle at 9.00 am for a brief Onam celebration. Students performed traditional Thiruvaadhira and a flash mob was followed. "Ethnique – Uniquely You" an ethnic show was organized in which students exhibited the traditional attire of various cultures.























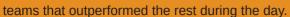


OLYMPIA 2020

To commemorate the solidarity of SJEC family, Olympia 2020 was celebrated on 31 January 2020 at the Estate Resort, Puthige. The fun filled event was attended by more than 100 faculty members of SJEC in addition to the management team.

The day began with cake cutting to symbolize the togetherness. This was followed by a series of fun-filled team activities providing ample opportunities for all participants to bring out the competitive spirit in them. Some of the participants came forward to showcase their unique talent that was well appreciated by all and sundry.

The fun games continued post lunch and the day culminated with distribution of prize to the













AVAKAASH - 2020

As a part of Induction Program, with an objective to exhibit the talents of first year students –"Avakaash -2020" was organized on 20th February 2020 at 9.30am in Kalam Auditorium, Academic Block III. Various competitions were held and students actively participated in them.

The guests for the program were Rev. Fr Wilfred Prakash D'Souza, Director, Rev Fr Rohith D'Costa, Assistant Director, Fr Alwyn D'Souza, Assistant Director, Dr Rio D'Souza, Principal, Mr Vijay, Induction Program Coordinator. The program commenced with the principal and director addressing the students with encouraging and inspiring words.







TED SJEC

x = independently organized TED event

The inaugural edition of TEDxSJEC was held on 16 February 2020 in the Kalam Auditorium. During the event, the following speakers addressed the gathering with their life experiences and intellectual insights:

• Aarohi Pandit, World Record holding Indian Pilot • Corrine Antoinette Rasquinha, Social Worker and Founder of White Doves NGO • Girish Bharadwaj, Padma Shri Awardee, Engineer and Social Innovator • Omkar Pai, Engineer and Nature Enthusiast • Vaishak J P, Mountaineer • Dr Smitha Hedge, Teacher and Scientist • Abhiraj Rajadhyaksha and Niyati Mavinkurve, Chief Storytellers at Following Love/Travel Writer and Author • Ria Sharma, Model, Speaker, Storyteller and an LGBTQAI and Youth Activist.

Apart from the speakers, the following performances won the hearts of all participants:

•Vidwan Deepak Kumar and Vidushi Preethikala, Bharathanatyam artistes •Vidushi Mahima S Rao, Yakshagana Artiste • Prithesh Bhandari and Team, Theatre Artiste and Film Maker •Gladson Peter, One Man Band

As an added attraction, the walkway leading to the venue will showcase works of creative art that depicts the theme Love Conquers All. A collection of creative drawings, installations, photographs, and performing arts that highlights current issues, revisits key moments

in history, and pays tribute to legends, who have stood up for love, in various fields will be lined up. A visual treat that will make you think, feel, and ponder over issues that we face.

TEDxSJEC was aimed at bringing people together and inspire them to collaborate and think about the larger picture, igniting a spark of love in them. Ms Crystal D'Souza from the Final Year CSE was the Licensee and Lead Organizer; Mr Vernon Serrao from the Final Year ME was the Co-Organizer. Dr Binu K G, Faculty in the Department of Mechanical Engineering was the Faculty Coordinator.































DISCIPLINE AND EQUITY GROUP

JAGRUTHI

COMMITTEEE FOR PREVENTION OF SEXUAL HARASSMENT



Talk on
Social Media
and
Cyber Security





Talk on
Women's Health
and Nutrition



INDUSTRY AND INNOVATION GROUP



Entrepreneurial Talk by Hallimane Shilpa



Inauguration of E-STEP Start-up Bootcamp



Industrial Visit to GWASF Quality Casting Pvt Ltd



Industrial Visit to MRPL



Industrial Visit to NMPT



Industrial Visit to Varahi Hydro Power Plant and Mani Dam



Innovation Day Celebration



Signing of MOU with KCCI

LIBRARY AND LEARNING GROUP

TEACHING LEARNING CENTER

Faculty Development Programme on Neuro Linguistic Programming Tools for Effective Teaching





First Faculty conclave of SJEC was jointly organized by IQAC and TLC of the college during 18, 20 and 21 January 2020.

Hands on Workshop on Critical Thinking and Social Innovation



PLACEMENT AND TRAINING GROUP

OFFICE OF COLLABORATIONS

The trend of internationalization is rapidly expanding in all fields of education which include internships, research and teaching. Courses and programs throughout the curriculum now include global perspectives. Collaboration with national and international universities is the need of the hour. An exclusive cell "Office of Collaborations" at St Joseph Engineering College has been established to oversee and coordinate the international activities on campus. We facilitate opportunities for students to travel to our partner institutes for higher education and different areas of collaborations. Our office works to promote relationships between foreign universities as well with premier Indian universities through appropriate Memoranda of Understanding (MoUs).

To provide all types of information on higher education and different areas of collaborations, the Office of Collaborations had organized many events are as follows.

An information session on Higher Education Abroad focusing on various options and opportunities was conducted for the final-year students. The speaker of the event, Mr Manoj Gosavi, Branch Manager, IDP Mangaluru. He guided students on Test Preparation, Finance/ Scholarship, Admission Guidance, Popular courses.





office of collaborations, in association with Quacquarelli Symonds (QS) US University Fair was orgnized on 18th September 2019 for the final year aspiring students. The Directors of Admission and Recruitment from highly reputed and ranked US universities participated in this fair. They guided more than 100 interested students on STEM programs, application for universities, scholarships availability and post study career opportunities in the US. Students were eligible to apply for scholarships worth US million \$. Some

of the universities that participated in the fair are New York University – Tandon School of Engineering, USC Viterbi School of Engineering, George Washington University- School of Engineering Applied Science, Indiana University - School of Informatics, Computing and Engineering, University of California, Irvine – Samueli School of Engineering, University of South Florida.

In association with AIESEC M.A.H.E team organized an Overseas Internship session on 30th September 2019 for all the second and third-year engineering, MCA and MBA students. The speaker of the event was Mr Kushagrr Rastogi, Business Unit Coordinator, AIESEC Manglaore.





An information session on how to write a successful statement of purpose (SOP) for overseas higher education application process was conducted on 21st October 2019 for the final year students. The speaker of the event, Ms Priya K, Branch Manager, Planet Education, Udupi.

An information session on the importance of Higher Education Abroad was conducted on 21st October 2019 for the Pre-final year engineering students. The speaker of the event, Ms Priya K, Branch Manager, Planet Education, Udupi. She guided students on Test Preparation, Finance/ Scholarship, Admission Guidance.





A Session was organized for the final year engineering students to provide information on Free Education Italy. Italy was offering 100% Scholarship & Drawn; Sponsorship to students wishing to ITALY study and settle in EUROPE "Schengen Nations". This was a great opportunity for students to launch their career with a world class education and global employment prospects. The session was organized on 22 nd October 2019. The speaker of

the event was Mr Srinivas, Venkateshwara, Jireh Pathways Abroad, Mangalore.

In association with Quacquarelli Symonds (QS) organized European Universities fair on 7 th November 2019 for all the final year students. The Directors of Admission and Recruitment and Professor from highly reputed and ranked European universities participated in this fair. They guided more than 80 interested students on STEM programs, application for universities, scholarships availability and post



study career opportunities in the Europe and UK. Some of the universities that participated in the fair are: Durham University UK, Imperial College London, Universidade Nova de Lisboa Portugal, Ecole Polytechnique France.

To encourage students on International English Language Test System (IELTS) and Higher Education Abroad, The Office of Collaborations had organized a talk on "How does studying abroad help professionally" for all the third year Engineering students on 8 February 2020. The speaker of the event is Dr Guru Tej and Dr Francisa Tej, Co-Founders and CAO, Wisdom Academy –IELTS, GRE, Higher Education Mangalore.





In association with St Aloysius Institute of CIVIL Services A unit of St Aloysius College Institutions, organized a half a day workshop on CIVIL Services, Plan Prepare, Perform om 15 February 2020. The Speaker of the event was Mr Shreyas K.M. Deputy Commissioner Customs & GST, Indian Revenue Services (IRS).

Overseas Education Fair was organized in association with IDP, Mangalore on 17th February 2020 at Bishop Aloysius Paul Hall, from 10:00AM to 4:00 PM for aspiring students of Final and third year Engineering, MCA and MBA. International Destination experts of IDP, Mangalore, guided the interested students and parents on how to apply for universities, various scholarship available and post study career opportunities in Australia, UK, Canada, New Zealand and Ireland.





To encourage students and to provide information about European Free Education, a talk on Higher Education Opportunities in European Countries was organized on 20 February 2020. The Speaker of the event was Ms Nikita Dedhia, Principal Consultant, Exponent Consultancy Service, USA. The talk was scheduled for all the pre-final year and final year engineering students.

V-ACT

V-ACT (Value, Aptitude, Career Guidance and Technical training) is an unique program of SJEC that aims to impart training to the students in various areas like values, aptitude and soft skills right from the first year of the course.





TINKERING AND ENGINEERING EXPLORATION LAB

A platform to create workspaces that is suitable for young minds to learn innovation skills, develop ideas via hands-on activities, work and learn in a flexible environment.



QUALITY ASSURANCE AND GOVERNANCE GROUP



Workshop on "New Age Teaching-Learning Process (TLP)"

Dates : 27 May 2019

: Teachers of St Aloysius Gonzaga School Mangaluru **Target Group**

Resource Person: • Dr Rio D'Souza, Principal-SJEC • Dr Shreeranga Bhat & Dr Purushothama

Chippar, Professor, Mech. Engg. - SJEC • Mr Ragesh Raju, Asst. Professor, MCA - SJEC



Bootcamp on "Active Learning Strategies"

Dates : 15 - 19 July 2019

: Faculty members of St Joseph Engineering College **Target Group** Resource Person: Faculty Members of St Joseph Engineering College



New Faculty Induction Program

Dates : 24 August 2019

Target Group : Newly Joined Faculty of SJEC

Resource Person: • Mr Rakesh T Lobo, HR Manager • Dr Shreeranga Bhat, IQAC-Coordinator

• Dr Felcy D'Souza, Librarian •Mr Ragesh Raju, Asst. Prof. - MCA



VTU TEQIP-3 sponsored 5-day workshop on "Outcome Based Education and Accreditation"

Dates : 29 Dec 2019 to 02 Jan 2020

Target Group : Faculty of neighboring VTU affiliated institutions

Resource Person: • Dr Umakanth P. Kulkarni (Professor and Head, Department of CSE SDM College of Engineering

and Technology, Dharwad, Karnataka, India) • Dr E. S. M. Suresh (Professor and Head, Department of Civil Engineering, NITTTR, Chennai, India) • Dr Claire Komives (Professor Department of Chemical Engineering San Jose State University, USA) • Dr Rio D'Souza (Principal, SJEC, Mangaluru, Karnataka, India) • Dr Shreeranga Bhat, Mr Sathyendra Bhat and Mr Ragesh Raju

(Faculty, SJEC, Mangaluru)



Faculty Conclave

Dates : 18, 20 to 21 Jan 2020 Target Group : Faculty of SJEC

Chief Guest: **Dr Prathiba Nagabhushan,** Professor, Australian Catholic University, Australia.

RESEARCH AND FACILITIES GROUP

One Week Online FDP on "Insights on Writing Research Proposals and Funding Opportunities"

The Chairperson of RFG, Dr. Sandhya Dass, Assoc Prof, ECE organized the FDP. 250 participants took part which included Research Scholars, Faculty & Students of SJEC and other Engineering Institutes. The Resource Persons were eminent professional from IITs, and top institutes.

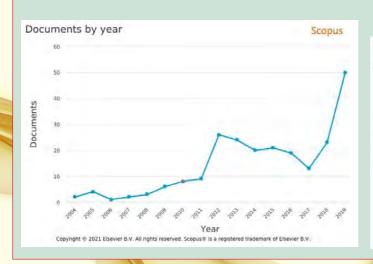
Date: 20th to 24th July 2020 on Online platform Cisco WebEx of SJEC.

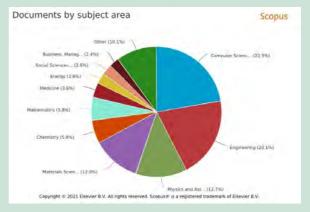


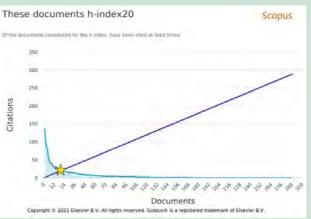




Citation Analysis of Publications @ SJEC based on Scopus







SPORTS AND COMMUNITY GROUP

Community Engagement Group Adopted 5 Grama Panchayaths to provide Social needs & Technical solutions.

Grama Panchayaths: 1. Hosabettu 2. Malluru, 3. Ammunje, 4. Navooru, 5. Beluvai

Description: Hosted Training on Interviewing residents of Pachanady and surroundings

to students of SJEC, St Aloysius College & Roshni Nilaya

Care Pachanady initiative in association with St Aloysius College, Roshni Nilaya and CEDSE (NGO), Campaigned to ensure scientific waste management practices by Mangaluru City Corporation with focus on health and environment hazards faced by people in Pachanady and surrounding localities. Dr Rita Noronha was the resource person for the training.

Date: 02 March 2019





Description: Survey on People's perception on the effects of Pachanady Dumping Yard

As a part of Care Pachanady initiative, The students of St Aloysius College and Roshni Nilaya and 30 students of SJEC participated in survey on People's perception on the effects of Pachanady dumping yard on health and environment

Date: 03 March 2019

Description: Hosted Training on interviewing the leaders and faculty

As part of Care Pachanady initiative in association with St Aloysius College, Roshni Nilaya and CEDSE (NGO) Hosted Training on interviewing the leaders and faculty of the institutions related to Pachanady dumping yard issues. Dr Rita Noronha was the resource person.

Date: 29 March 2019





Description: Blood Donation Camp

A blood donation camp was organized by NSS Unit of SJEC in association with Father Muller's Medical College Hospital Mangaluru. 106 students voluntarily donated blood.

Date: 8 May 2019

Description: Short Term Training Programme on "Rural development through Technical Institution (ICT08)"

Thirteen of our faculty have immensely benefitted from the course, by comprehending role of Technical Institution in implementing the various schemes for rural development, preparing the action plan of the scheme, implementation of rain water harvesting techniques in rural areas. Trainers from National Institute of Technical Teachers Training and Research (NITTTR) Kolkata were the resource persons.

Date: 29 July 2019 to 02 August 2019 (5 Days)



Description: Lions International Launches Go Green Initiative at St Joseph Engineering College

On the occasion of the installation ceremony of the district cabinet of Lions International, a Go Green event was organized at St Joseph Engineering College. This event was jointly hosted by Community Engagement Group, Eco Club and NSS wing of SJEC. Students, Faculty of SJEC and district cabinet of Lions International Mangaluru were present at the function.

Date: 3 August 2019

Description: Items and Fund Collection Drive to help Flood Victims.

40 Students from NSS actively participated in this drive. Total Amount of Rs 50,697/- and Items worth of Rs 60,000/- collected from faculty and students of SJEC and handed over to Authorities of District Collection Centre, KPT, Mangaluru on 15 August 2019.

Date: 13,14 and 15 August 2019



Description: The Alumni Versus Current Students Cricket Tournament for Men

Sports Advisory Committee organized the event. The match was played for 6 overs. As there were three teams two Alumni and one Current Students team, the tournament was conducted on a league basis. Alumni under the captainship of Mr Darshan & team won the match and Current student Mr Ashish & team were the Runners up.

Date: 21 September 2019.





Description: The Inauguration of ECO Club

The inauguration was commemorated by watering the Sapling. The chief guest for the programme was Dr Smitha Hedge, Professor, Centre for Science Education and Research, Nitte University

Date: 27 September 2019

Description: Talk on Geo Tagging of Plants

ECO Club organized the event. Dr Smitha Hedge, Professor, Centre for Science Education and research, Nitte University delivered the talk.

Date: 27 September 2019





Description: Sapling of plants

NSS organized the event. The activity of Planting saplings was a memorable evening as fun blended with a cause of protecting nature. The venue for planting the saplings was near the college entrance.

Date: 30 September 2019.



Description: Swachatha Abhiyan in Navoor Village, Bantwal Taluk

NSS and Community Engagement Committee in association with Gramapanchayat of Navoor Village organized the program to mark 150th birthday celebration of Mahathma Gandhiji. Navoor Gramapanchayath is one of the adopted villages by the Institution for Community services. 47 students of NSS unit along with 7 faculty members participated in the program.

Date: 2 October 2019

Description: Alumni Versus Current Students Throw ball Tournament

Sports Advisory Committee organized the event. The match was played for Best of three sets. The Current student team won the match by winning 2-0 sets and Alumni team were the Runners up.

Date: 5 October 2019



Description: Technical talk

Community Engagement Committee Organized a technical talk for the faculty and Final year students by Mr Jayaprakash Rao K, Former Regional PRO, DRDO, Ministry of Defence, Zonal Chairman Public Relation Council of India , on "Advancement of Indian Defence Science and Technology".

Date: 18 November 2019

Description: The NSS Annual Special Camp

NSS Organized a special camp in the premises of Government higher primary school Puthige, Moodbidri. The camp was inaugurated by Mr Umanatha Kotian, MLA of Moodbidri constituency on 20th January 2020. The valedictory programme was held on 26th January 2020. Mr Abhayachandra Jain, Former Minister, Government of Karnataka was the chief guest. 42 student volunteers and 12 faculty members participated in the camp.

Date: 20 January to 26 January 2020



Description: Honey Bee Keeping Training Program

ECO Club organized One Day Training Program on Honey Bee Keeping. This training

was organized for teaching faculty members, non teaching staffs of SJEC and also to the interested farmers. 30 participants participated the Program which included 4 external participants. Mr Lakshman Belthangady was the resource person.

Date: 29 February 2020





Description: Community Service during Covid -19 pandemic

SJEC handed over 100 food kits to Neermarga Grampanchayat for distribution to 100 poor families. Neermarga Grampanchayat President Mrs Kamala along with panchayat members received the kits from Fr Rohith D'Costa Assistant Director SJEC at SJEC.

Date: 18th April 2020

Description: SJEC, School of Social Work and CEDSE (NGO) distributed Rice and Groceries to distressed street vendors at Roshni Nilaya.

Date: 15th May 2020





SJEC handed over 100 food kits to Mallur Grampanchayat for distribution to 100 poor families. Mallur Grampanchayat President, PDO and other officials received the food kits at Mallur Grampanchayat Office. Mallur is one of the village adopted by SJEC for community service.

Date: 29th May 2020

PROFESSIONAL SOCIETIES GROUP

ISTE ACTIVITIES



A Technical Talk on "Engineering Innovations"

Date: 07th August 2019

Resource person: Dr Narayan V Nayak, Principal Advisor, Gammon Engineers and Contractors Pvt Ltd

Objective: The technical talk aimed at providing knowledge of the inventions made in Civil Engineering, current trend of world innovation, student contribution towards innovation and innovation approach.

Technical Awareness Talk on "Soft Computing **Advancements in Civil Engineering**"

Date: 30th August 2019

Resource person: Ms Alakya, CADD Center, Bendoorwell,

Mangaluru.





Industrial visit: Gerusoppa Hydro-Electric Power Plant, Shimoga

Organizers: ISTE in association with EELS association of the Electrical and Electronics Department

Date: 18th October 2019.

An insight into the IT industry

Date: 16 October 2019

Resource Person: Ms Madhura Bharadwaj,

CSE- 2015 Batch





Industrial visit to Intake Structure at Tumbe

Date: 18th November 2019

Faculty In charge: Mr Prashant Kurdekar and Mr

Ajeeth B

Objectives: The main objective of the visit was to give students exposure on the onsite water treatment process, intake structures like jack well and pumping station and also make them aware of how various wastewater treatment processes are carried out in the municipal treatment plant.

A Technical talk on "Machine Learning and its Advantages in Medical Imaging"

Date: 23rd November 2019

Chief Guest: Mr Kartik Mohan, Data Scientist,

Techspiritz, Mangalore.





Nuvoton Board Development, a three day workshop for second year and third year students was organized by ECE Department in association with ISTE SJEC student chapter; to construct a Nuvoton Microcontroller based General Purpose Development Board with provision for General Purpose I/O ports along with Motor Control and Home Automation Units.

Date: January 13-15, 2020.

The Resource Persons: 1) Mr Vageesha S, Mr Prathwi Raj Jain and Mr Sachin M C, Brevera Technology Mangaluru 2) Mr Mahesha Y Assistant Professor, ECE Dept, SJEC.



Event: ISTE & MATLAB: Internal Hackathon for Smart India Hackathon 2020

Date: 07 February 2020

Faculty coordinator: Mr Prashant Kurdekar, ISTE Chairperson-SJEC & Ms Nandini Maninarayan, Assistant Professor, Department of Electronics & Communication.

Objectives: Internal Institute Level Hackathon as a part of Smart India Hackathon 2020

IEEE ACTIVITIES

Technical competition conducted on IEEE Day - "Mind Hunter"

Date: 26 September 2019

Faculty Coordinator: Ms. Pramila M, Asst. Professor,

CSE Dept

Description: The event was conducted to make participants think outside the box with the riddles, Critical thinking (Tower of Hanoi) and experience the basics of programming.



Technical competition conducted on IEEE Day - "CodeRunner 2.0"

Date: 26 September 2019

Faculty Coordinator: Ms. Pramila M, Asst. Professor,

CSE Dept

Description: The event was conducted to make participants experience competitive programming. It gave participants idea of how companies conduct coding rounds during placements and the type of questions that can appear.

workshop on 'Arduino One day Sensors'

Date: 27 September 2019

Resource Person: Akshay, Dhanush, Garry, Lanwin and

Steevan, student members of IEEE

Description: The workshop mainly focused on building the fundamentals of microcontrollers, coding and Arduino from an application perspective. The students also learnt the working of over 25 different sensors and their interfacing with Arduino.





An Intercollegiate Quiz Competition- Sci-Tech 2.0

Date: 30 September 2019

Quiz Master: Mr. Sandeep Kamath who is a national level quizzer and an eminent quiz master.

Description: Students from SJEC and other engineering colleges like NITK, NMAMIT, MITE and Canara engineering college had participated. The students had participated in teams of 2 members. There was a total of 60 teams that participated.

Technical talk on '1,2,3,4,5 of Cryptography

Date: 01 October 2019

Resource Person: Dr Alwyn Roshan Pais, HOD,

Department of CSE, NITK, Surathkal

Description: The speaker Dr Alwyn Roshan Pais explained about the basic idea of Cryptography and the mathematics involved in the theory behind cryptography. The talk was attended by about all the final year students of ECE and other few interested students and faculty of SJEC.



IEEE DAY

IEEE Day Celebration

Date: 01 October 2019

Description: The formal 'IEEE Day celebration' was organized on Oct 1, 2019 from 4:00pm-5:00pm at Fr Fred memorial Hall. The Chief Guest was Dr Rio D'Souza, Principal, SJEC. Rev Fr Wilfred Prakash D'Souza, Director, SJEC, presided over the function. Rev Fr Rohith D'Costa and Rev Fr Alwyn R D'Souza, Asst. Director(s), SJEC were the guests of honor. The event was chief coordinated by Ms Rashmi H, Branch Counselor, IEEE SJEC Student Branch.

Three Days Hands on Workshop on "Machine Learning and Its Applications"

Date: Feb 10-Feb 12, 2020

Resource Person: Mr. Mohammed Ameer, Founder of

Diazonic Labs, Bengaluru

Description: The session was attended by 40 final year students of SJEC. The session was aimed at helping the final year students achieve a deeper and application level understanding in Machine Learning. The session involved pre-processing, choosing the right algorithm based on each problem statement, model fitting, how over fitting can be avoided, image processing and mini project other few interested students and faculty of SJEC.





Outreach Activity at 'Dakshina Kannada Jilla Panchayath Model Higher Primary School'

Date: February 22, 2020

Venue: DAKSHINA KANNADA JILLA PANCHAYATH MODEL HIGHER PRIMARY SCHOOL', Vamanjoor

Description: Students created awareness related to various ways of greeting and respecting their elders and teachers. They also conducted quiz related to the awareness created and prizes were distributed to the students.

Webinar on "Benefits of joining IEEE Signal Processing Society"

Date: February 26, 2020

Resource Person: Dr K V S Hari, Vice President membership, IEEE Signal

Processing society, Fellow of IEEE, Professor, IISc Bengaluru

Description: The webinar was focussed on benefits of Joining Signal Processing society of IEEE and opening a society chapter in a student branch. The speaker also spoke of the impact of signal processing community in growth of technology.





IEEE membership awareness drive-half yearly

Date: March 13, 2020

Resource Person: Dr Jagadeesha R Bhat, Assoc Professor,

SJEC, MDC Chair, IEEE MSS

Description: The event was conducted to create awareness to students of SJEC to understand the important of joining IEEE as a student member, various benefits, opportunities, history and growth of IEEE worldwide and support offered by IEEE for student members.

AICUF ACTIVITIES

Stall for Milan 2019

Date: 19 September 2019

Faculty Coordinator: Ms. Pramila Rita D'Souza, Asst. Professor, Chemistry Dept, Ms K Aarya Shri, Asst. Professor, ECE Dept& **Ms Spurthy, Asst. Professor, CSE Dept.**

Description: AlCUF-SJEC unit organized vojae procession, nativity skit, baila and had kept the food & game stalls for Milan 2019.





AICUF-SJEC Unit Inauguration 2019

Date: 11 October 2019

Faculty Coordinator: Ms. Pramila Rita D'Souza, Asst. Professor, Chemistry Dept, Ms K Aarya Shri, Asst. Professor, ECE Dept, Ms Jyotsna D'Souza, Asst. Professor, Mathematics Dept & Ms Spurthy, Asst. Professor, CSE Dept.

Description: AICUF association inauguration was conducted in Bishop Aloysius Paul Hall at

2.30 pm with Ms Anasooya Rai, Senior Faculty of Rudset Institute, Ujjire, Belthangadi, D. K. as the Chief Guest of the programme and resource person for the talk "Society and Charity" delivered to the AICUF members.

Infant Jesus Orphanage Visit

Date: 11 October 2019

Faculty Coordinator: 24 November 2019

Faculty Coordinator: Ms. Pramila Rita D'Souza, Asst. Professor, Chemistry Dept, Ms K Aarya Shri, Asst. Professor, ECE Dept & Ms Spurthy,

Asst. Professor, CSE Dept.

Description: On the occasion of Children's day AICUF-SJEC Unit visited Infant Jesus Orphanage, Bondel between 2.30 pm to 5.00 pm. The Orphanage shelters 76 children between the age of 6 to 13 years.



AICUF members collected contributions in the form of cash and clothes from staff and students of SJEC. A cheque of Rs. 10,000/-, Stationery items, chocolates and groceries worth approximately Rs 25,000/- were donated to the orphanage.

AICUF members served refreshments, juice and chocolates to the children and staff of the orphanage. The children sang "Thank you" song at the end of the visit. It was a heart touching and overwhelming experience for both AICUF members and the children. AICUF-SJEC Unit is grateful to the management, staff and students of SJEC for their generous contributions towards this noble cause.



Sports day stall for GO FOR GOLD 2020

Date: 12 March 2020

Faculty Coordinator: Ms. Pramila Rita D'Souza, Asst. Professor, Chemistry Dept, Ms K Aarya Shri, Asst. Professor, ECE Dept & Ms Spurthy, Asst. Professor, CSE Dept.

Description: AICUF kept food and games stall for sports day, GO FOR GOLD 2020 at the SJEC grounds.

STUDENT WELFARE AND ALUMNI GROUP

ALUMNI INTERACTIONS



Event: Alumni interaction

Date: 12 October 2019

Resource Person: Mr Saurabh Jain, ECE- 2010 Batch;

Ms Shilpa Shenoy, ECE - 2016 Batch

Event: Alumni interaction

Date: 26 October 2019

Resource Person: Mr Vignesh Aithal, ECE- 2016 Batch





Event: Alumni interaction

Date: 14 August 2019

Resource Person: Ms Zeeba Naaz, MBA- 2012 Batch

Event: Technical seminar on "Smart Grid & Smart Cities"

Date: 22 November 2019

Resource Person: Mr Mohammed Shakir, EEE-

2008 Batch





Event: A Technical Talk on "Challenges and advances in resistance spot welding of advanced high strength steels and aluminum alloys for future electric car vehicles"

Date: 17 October 2019

Resource Person: Dr Vijeesh Vijayan,

Mech-2007 Batch

Event: A talk on "A Journey into the Real World"

Date: 20 February 2020

Resource Person: Mr Aston

D'Souza, Mech-2013 Batch





Event: Industry/Alumni Interaction - Mindshare on Challenges and Preparedness for Post - COVID Scenario -Perspectives from both Industry and Educational System

Date: 9 May 2020

STUDENT WELFARE ACTIVITIES



Event: A talk on "Advancement of Indian defense science and technology"

Date: 18 November 2019

Resource Person: Mr Jayaprakash Rao K, Former Regional PRO, DRDO, Ministry of Defence, Zonal Chairman Public Relation Council of India

Event: A talk on "Know Your Rights"

Date: 18 November 2019

Resource Person: Ms Anmol Kohli,

Campaign Manager, ITC Vivel





Event: Workshop on "Cyber Safe Campus"

Date: 21 October 2019

Resource Person: Dr Ananth Prabhu G, Cyber Security Trainer and

an Author

SJEC ThinkPieces



Online Learning Experience during COVID-19

by Andrea May Fernandes, 4th year CSE



The field of education has undergone a paradigm shift during the lockdown due to the fatal pandemic caused by COVID-19. Most of the institutions have started to adopt new methodologies to ensure that no student misses out on seeking knowledge. Since social distancing and self - isolation have become the norm, the only alternative for exchanging learning experience was through online modes of communication using digital devices.

As a student at St Joseph Engineering College, I am proud to state that the college has been at the forefront of utilizing digital resources. Within a week of lockdown, the faculties engaged in delivering online classes and resource materials through various platforms like Google Meet, Google Classroom, Canvas Instructure, and Microsoft Teams. The recorded lectures of the same were uploaded on digital classroom platforms where the students could access it in case, they had an unfavourable network during the live broadcast. The faculty members also conducted interactive quizzes and game-based activities through Kahoot, Open Board, Edpuzzle, and Mentimeter.

The highlight of the online learning experience was when SJEC partnered with Coursera, a massive American online course provider by Stanford University to enable free access to over 3900+ courses, 13+ Professional Certifications, and 20+ Degree and Master track Certifications. Most of the students from our college & students across the world have benefited from this initiative by Coursera.

We also had engaging webinars and sessions from various companies and organizations, that gave us insights about the future revolution of industries and the skills in demand. Besides, we had a virtual alumni meet, where we had a glimpse of the work experience in the corporate world. Likewise, we had sessions on the opportunities available to pursue studies abroad.

Online education is an alternative to traditional teaching to overcome the crisis caused by the pandemic. It has become the go-to solution and has been helping educational institutions to beat the Covid-19 lockdown to an extent. Our College has indeed been at the forefront of leveraging online tools for facilitating the learning process.

ದುಡ್ಡಿನ ಮದದಿಂದ ಮೆರೆಯ ಬೇಡವೂ ಮೂಡ ಎಷ್ಟಿದ್ದರೇನು ಹೋಗಲೇಬೇಕು ಸುಡುಗಾಡ ತಲೆ ಬಗ್ಗಿ ನಡೆಯುತ್ತಿರು ಬೆಳಿಸಿದವರ ಕಡೆಗೆ ಗೌರವದಿ ಮರೆಯದಿರು ಅಕ್ಷರ ಕಲಿಸಿದವರ ಕಡೆಗೆ ನಿನ್ನದೇ ಹೆಸರಿನ ಖಾತೆಯ ತೆಗಿ ಸಾಧನೆಯ ಪುಟದೊಳಗೆ ಆ ಪುಟವು ನೆಲೆಸಲಿ ಪ್ರತಿಯೊಬ್ಬರ ಮನದೊಳಗೆ.

ವಿದ್ಯೆ ಮುಗಿಲ ಬಾಗಿಲು ತಟ್ಟಿದರೂ ಶ್ರದ್ಧೆ ಅದರಲ್ಲೆ ಕೊನೆ ಕಂಡಿತು ಭಕ್ತಿಯು ತೋರಿಕೆಗಪ್ಟೇ ತೋರುವರು ವಿನಯ ಕಾಣದಿರಲು ಇನ್ನಷ್ಟು ಹುಡುಕಿದರು!!

- ಶರತ್ ಕುಮಾರ್ ಎಸ್ ಎಮ್ ಮೆಕ್ಯಾನಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ 5ನೆ ಸೆಮಿಸ್ಟರ್



Engineering Education 4.0

Compiled by Dr Sudheer M
HOD-ME



Introduction:

The fundamental mission of universities include three main functions: (i) the training of professionals who are capable of facing technological, social, political and economic challenges, with an ethical leadership and high sense of responsibility, (ii) the creation of knowledge through scientific research, and (iii) the sharing of the knowledge and experience with the society to improve the quality of life.

During the first 3 industrial revolutions, people have seen and created mechanical, electrical and information technology systems, which were aimed at improving productivity, Figure 1. The concept of Industry 4.0 (I4.0) is based on the integration of information and communication technologies and industrial technology, and is mainly dependent on building a cyber-physical system to realize a digital and intelligent factory, to promote manufacturing to become more digital, information-led, tailored, and green. The purpose of I4.0 is to build a highly flexible production model of personalized and digital products and services, with real-time interactions between people, products and devices during the production process.

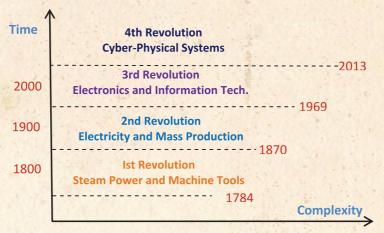


Figure 1. Different Industrial Revolutions

The market will have a major transformation in the next 5 years because of several drivers: (a) Fast growing market, expected to reach \$1 trillion in 10 years, (b) Global competition in the manufacturing sector, (c) Opportunities to optimize production processes, (d) Governments and the private sector of high/low labor costs economies invest in I4.0 to increase their industrial base taken by high/low labor cost countries, (e) Government-funded I4.0 projects, R&D, subsidies and tax incentives, (g) I4.0 offers start-ups and SMEs the opportunity to develop and provide downstream services, (h) I4.0 dynamic business and engineering processes enable last-minute changes to production and deliver the ability to respond flexibly to disruptions and failures on behalf of suppliers and customers, (i) End-to-end transparency provided over the manufacturing process, facilitating optimized decision-making, and (j) I4.0 provides the link to the consumer, and can forecast consumer demand. **Professionals for these drivers are needed with different competencies.**

By paying particular attention to the last mentioned point that a new curriculum at the undergraduate level is necessary to guide the training efforts of engineers to meet the needs and demanded requirements of the I4.0. It is a novel strategy that intends to develop the needed talent to face the challenges that lay within the future factories and business. These tasks relate to the domain of manufacturing, informatics, and process technologies, in addition to a clear integral vision of the trade, and high creativity, in order to make an upstanding use of these technologies and bring higher value to its clients while improving their methods. In consideration of future employment domains, engineering students should be prepared to meet the demands of society 4.0 and industry 4.0 – resulting from a fourth industrial revolution. A new curriculum for **Engineering Education 4.0** is necessary.

Competencies of Engineers 4.0:

Numerous references define the future of job positions as uncertain, there is doubt about how future jobs are going to be organized, which kind of work is going to be developed, who is going to do that work (either man, machine or cyber-physical systems), there exists an even more fundamental question: Why do people work? Literature concludes there are three main viable predictions on future of jobs, a fairer workplace for all employees, and more emphasis on employee development to help them get a broad sense of purpose in their duty. Some important requirements needed to develop since early in higher education programs both in engineering and science are adaptability, multi-disciplinary and creativity. It is thought future jobs will be interconnected, open, flexible and with great capacities for managing virtual and innovating workplaces. The general competencies for the Engineer 4.0 are listed in Table 1.

Table 1. The general competencies for the Engineer 4.0

Competencies (general skills)	Description	
Virtual Collaboration	Virtual collaboration tools offer a great value for improving communication. New virtual social networks are being developed by companies such Facebook or Google. These tools allow organizations to take advantage of the knowledge of all their members enabling them to interact more efficiently and rapidly, regardless of the distance or physical location of each member.	
Resilience	Defined as the proficiency to overcome diverse backstrokes, dares and challenges. The development of this skill is relevant for either individual or organizational level.	
Social Intelligence	Social intelligence, or empathy, is the ability of a person to relate to others effectively and peacefully. To do this, verbal and emotional intelligence, listening, paying attention and managing physical contact are used.	
Novel and adaptive thinking	Skills that facilitate quick and adaptive responses to outside circumstances will be awarded in the changing world of increasing global connectivity, market competition, and automation. It is expected that as everything gets connected thanks to new technologies, the whole system will become unpredictable and incredibly complex. Adaptive thinking will help engineers to overcome such complexity.	
Load cognition management	The actual world creates a vast amount of data every second, coming from people, objects, processes. To be able to manage all this information and obtain useful insights from it, instead of finding it as an obstacle is a relevant tool for new generation engineers.	
Sense making	Smarter machines and devices are being currently developed. As machines get useful and skillfully in more advanced tasks, it is important to develop in engineers the skills at those tasks machines are not good at performing. These tasks involve higher cognition levels of skills which cannot be engineered into a machine. These are called "sense-making skills". Sense making skills involve decision making processes and self-learning in a conscientious manner.	
New Media Literacy	New media tools, from traditional blogs, social media mass marketing, open video content production or instantaneous messaging apps, have created a need for Literacy or know-how in how to efficiently operate them. It is needed to discern relevant content from less useful information that typically is shared on all social media.	

Design Mindset (Design thinking)	Design thinking is a methodology used for developing and finding new solutions to problems encountered from simple daily routine or in complex global processes. It makes use of all the previous competences, plus some other observational skills that allow the engineer to have an "uncommon" mindset that would be ignored or not even considered otherwise, but may offer a great solution.
Trans-disciplinary approach	Globalization has allowed us to make available all the best products from all markets, creating an environment of high competence. In order to be successful in this competitive world, traditional single-subject-highly-specialized engineers are not enough. The trans-disciplinary approach is not only limited to being able to work with people with different backgrounds. It means the engineer is formed and understands topics not related to his expertise area. As writer and theorist, Howard Rheingold explains, this skill is really about "speak[ing] the languages of multiple disciplines. Biologists who have an understanding of mathematics, mathematicians who understand biology." Future workers will need the ability to think through different disciplinary approaches by themselves.
Computational Skills	Enable to write and understand coding programming as a universal language.

Teaching-Learning Model:

The curriculum of Engineer 4.0 program at the undergraduate level shall consist of the design of a challenging experience in each term of the program, where the students are involved in a complete immersion in a real learning environment. This design shall employ a combination of Active Learning techniques, like Problem Based Learning and Problem Oriented Learning, where the learning process occurs in a way that is connected to a reality based on the resolution of a concrete project.

Blended learning is inspired by the correct combination of face to face class sessions with extra support material which may be online. Learning spaces are not limited anymore to a classroom or specify place. It is proposed to use the enriched virtual model, where students do the majority of scholar work online, and the learning process is complemented with clarifying, discussion or analysis sessions in the classroom.

On each module, face to face sessions are taken in the classroom, combined with remote sessions using video conferencing softwares such as Google Meet, Zoom™ etc - digital classroom – as well as collaborative laboratory activities - collaborative lab -which complement the topics seen in class. It also provides an interdisciplinary project with real-life applications. Finally, assessment is based on competencies. Assessment is a key feedback step into this teaching-learning process.

The students enter into a completely different world to that of the usual dynamic of class attendance in a determined and fixed schedule. Effectively, in the spirit of flexibility this is a scheme that brings elements that allow the students the self-organization of their assignments, promotes self-responsibility, and connected and interconnected learning, contextually oriented, applied, and significant teaching. It is perhaps, a pedagogical experience that is a closer reality, which motivates the students as they are likely to develop different learning experiences: intrinsic motivation. Figure 2 presents the proposed teaching-learning model.



Figure 2. Teaching-learning model

Structure of the Curriculum:

Table 2 summarizes the 4-year bachelor's curriculum. The competencies and outcomes shall be detailed, as well as a novel, flexible in competency development stratagem based on real challenges. The required soft skills, shall be included throughout the Curriculum.

Table 2. General and disciplinary competencies in 4-years bachelor's curriculum

Year	Disciplinary Competencies	General Competencies
. I Year	 Fundamental Sciences Maths, Physics, Chemistry, Statistics, Biology. Coding (Programming) 	Computational SkillsVirtual Collaboration
II Year	 Applied Science Materials, Manufacturing, Control Principles, Signal Processing, Applied Statistics, System Engineering 	ResilienceSocial IntelligenceNovel & Adaptive Thinking
III Year	 Block – 1: Industrial Automation and Control Block – 2: Production, Business and Management 	Load Cognition managementSense making
IV Year	 Block – 3: Advanced Manufacturing Block – 4: Information and Communication Technologies 	New Media LiteracyDesign MindsetTrans-disciplinary Approach

Educational Research, Innovate and Transcend:

The institutional priority must be to:

- Form and educate: make a significant contribution to the quality of the teaching-learning process and form inspiring Professors.
- Innovate and transform the scientific and technological knowledge into innovative solutions for the social welfare.
- Transcend, generate and transfer knowledge for the benefit of our nation. Face challenges and improve the competitiveness collaborating with the industry and other private and public organizations.

The formation of **research study groups** are the key elements in Engineering Education 4.0 program.

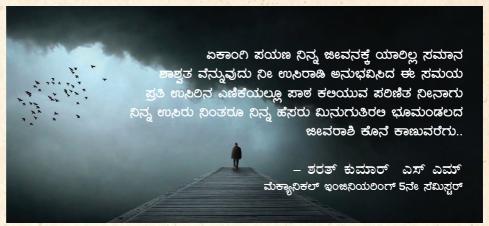
The **Advanced Manufacturing** research group is an example. This group focuses on applied research related to the design and manufacture of products with high added value using disciplines such as competitive intelligence, circular economy, bio-manufacturing, additive manufacturing, precision engineering and laser-based micro-processing. The complete life cycle of the product is studied through competitive intelligence, circular economy, eco-design and green manufacturing concepts. Some of the advanced manufacturing processes of interest to this group include: 3D printing of tissue engineering scaffolds, electro-spinning of nano-fibers, laser micro-cutting and micro-welding, soft lithography for microfluidics, micro-injection molding, micro-milling, incremental sheet forming and metrology etc.

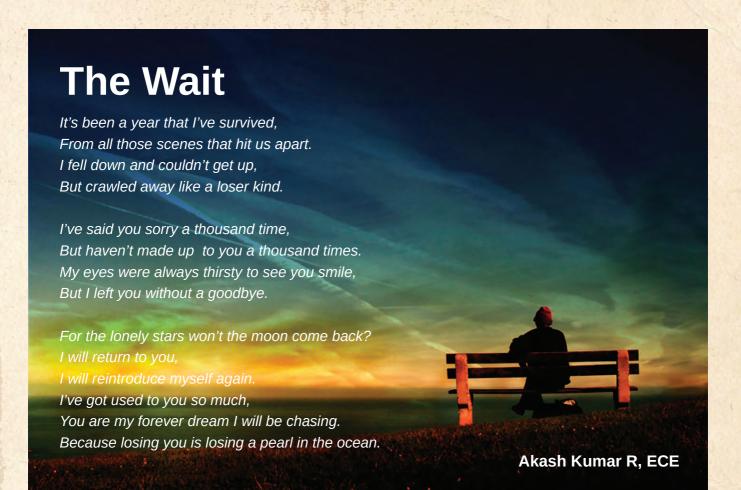
Conclusions:

The industrial world is currently undergoing changes due to increasing digitalization and computerization in companies: I4.0. The need for more collaboration between personnel with different fields of expertise arises. This means that members of a multitude of professions need to work and communicate with each other. These developments in the industry also have an influence on current education curricula at schools and universities. Interdisciplinary knowledge across different curricula is required to work in an I4.0 environment.

A new engineering curriculum is a must, one that guides the efforts of training engineers so that they may meet the needs

and requirements of the I4.0. There arise needs to equip engineering students with a wider horizon on concepts, for decision making sensitive to the future needed competencies. A multi-disciplinary entity in engineering curriculum with special reference to applied aspects of engineering together with innovation and design that can also pave the entrepreneurship way for early career engineers is the need of the hour.





ನಾವ್ ಅನ್ಕೊಂಡಿದ್ದ್ ಎಲ್ಲಾನೂ ಬರೋಬಿಲ್ಲ.. ನಾವು ಬೇಡ್ಕೊಂಡಿದ್ದ್ ಎಲ್ಲಾನೂ ಸಿರೋಬಿಲ್ಲ.. ಇಬ್ಬಿದ್ರಲ್ಲೇ ಖುಷಿಪಟ್ಟೆ ಎಲ್ಲಾನು ಸುಲಭಾನೇ.. ಅದಕೆ ನಾವು ಹೇಳೋದು ಜೀವನಾನೆ..

ಖುಷಿಯೋ.. ದುಃಖವೋ.. ಸೋಲೋ.. ಗೆಲುವೆನೋ.. ಎರಡನ್ನೂ ಸ್ವೀಕರಿಸಿ ಹೋದರೆ ಚಂದ ತಾನೇ.. ಇಲ್ಲಾಂದ್ರೆ ಬದುಕೊಬಿಲ್ಲ ಕಷ್ಟ ಸಾನೇ..

ನಂಜಕೆ ಕಳ್ಳೊಂಡು ಜೀವನ ನಡೆಸುವುದು.. ಬಹಳ ಕಷ್ಟ ಸ್ವಾಮಿ ನಿಜ ಅಲ್ವೆನೇ.. ಕಾಯುವ ತಾಳ್ಮೆ ನಮ್ಮೋಳಗೆ ಇದ್ದು.. ನಡೆಯುವುದು ಅಷ್ಟು ಮುಖ್ಯ ತಾನೇ..

ಸಿಲಿತನವೋ.. ಬಡತನವೋ.. ಕಷ್ಟಾನೋ.. ಸುಖಾನೋ.. ಭಲ ಧೈರ್ಯ ಒಂದಿದ್ರೆ ಸಾಕು ತಾನೇ.. ನಮ್ಮೆಲೇ ನಂಚಿಕೆ ನಮಗಿದ್ರೇ ಸಾಕು ತಾನೇ.. ಕಾಲಚಕ್ರನೂ ತಿರುಗಲೇಬೇಕು.. ಸ್ಥಿತಿಗತಿಯೂ ಬದಲಾಗಲೇಬೇಕು.. ಒಳ್ಳೆ ಕಾಲ ನಮಗು ಬರಬಹುದು ತಾನೇ.. ಪ್ರತಿಯೊಂದಕೂ ಪಲಿಹಾರ ಸಿಗಬಹುದು ತಾನೇ..

ಬೇರೆಯವರ ಬಗ್ಗೆ ಆಲೋಚನೆ ನಮಗ್ಯಾಕೆ.. ಬೇರೆ ಬೇಕಾದಷ್ಟಿದೆ ಮಾಡಲಕ್ಕೆ.. ಅದ ಮಾಡೋದು ಇಲ್ಲ ನಿಯಮ ತಾನೇ.. ಮನಸ್ಸು ಮಾಡಿದರೆ ಇಲ್ಲ ಎಲ್ಲಾ ಕ್ಷಣಗಣನೇ..

ನಮ್ಮೇರ ಜೊತೆ ಉಳಸ್ಕೂ ಬೇಕು ಸಂಬಂಧನಾನೇ.. ಉರ್ಕೊಳ್ಳೋರ ಮುಂದೆ ನಾವ್ ಬೆಳಬೇಕು ತಾನೇ..

> - ವಿನಯ ಎ ಶೆಚ್ಚಿ ಕಂಪ್ಯೂಟರ್ ಸೈನ್ಸ್ ಇಂಜಿನಿಯರಿಂಗ್, 6ನೇ ಸೆಮಿಸ್ಟರ್

Online Learning during the Pandemic

- Student Experience

- Aronstun Ralph D'Souza VII Semester Department of CSE



midst the ongoing pandemic, continuing education through the online mode was yet another challenge! But, we the students along with our professors took it as an opportunity to adapt ourselves to this new method of teaching and learning online and moving towards digitalization. This adaptability also contributed towards Digital India - a flagship programme of the Government of India with a vision to transform India into a digitally empowered society and knowledge economy. Online learning helped all of us learn and master various tools and technologies that are used in the process of learning and reap the best out of it. I appreciate the efforts put forth by the members of faculty of SJEC and I am thankful to all them for ensuring that every student is able to grasp the concepts taught online. It would be inappropriate if I don't mention the services rendered by our Professors during this period. They were willing to help any student who approached them with any sort of doubts, were in constant touch with us and ensured our well-being. All these things made us feel that we all

are together, though we were apart. Online Education has benefitted us in several other ways too. It has taught us the importance of time management, being punctual and revising the concepts taught on a regular basis, submitting the assignments well before they are due. Yet another added privilege was that we could revise the concepts easily by watching the video lectures that were uploaded in Google classroom, Canvas etc., number of times and thus be thorough with the concepts. At the same we were offered by SJEC, the privilege of enrolling ourselves, getting certified in various Massive Open Online courses (MOOCs) provided by top Universities such as Stanford, Harvard, MIT, Michigan, Yale and leading companies like Google and IBM, through various MOOC providers such as Coursera, edX etc., for enhancing our knowledge and being industry ready. Thus, though the lockdown was imposed throughout the nation during the pandemic, it was not imposed on education. In fact, this period gave us more opportunities to learn through the usage of various tools and technologies online and upgrade ourselves.

Love Beneath The Shadows Of Time

I've been waiting for the time over a long time,
The time where my answers are found.
I wait, I wait but all in vain,
And what I get I get is pain.

Once we thought we were inseparable, But now we feel we are drifting apart. Loneliness is blocking the day, But our love never fading away.

Our love withstanding time.

There is no place I'd rather be,

Than in your heart and your dreams.

Maybe I don't talk to you like old times,

You are always my first thought when I see light, And my last thought when I see dark.

Love with time has created distances,
Where time has forged our love.
I pity that rivals get to see each other of ten,
But loved ones being closer seem lost.
I don't know where this leads,
Hope it doesn't drag me to no man's land.

I'm sorry to have hurt you times,
Even I've been deeply cut.
All I can tell you at this time isI promise to love you,
For every moment forever.
Even when love digs deep beneaththe shadows of time.

Akash Kumar. R, ECE

Consciousness

Some say it's the abundance,
Others say it's the status,
And the wiser say it's the manners;
But oh my dear conscious!
What could define a person like u do?!
Crouched in my comfort shell,
Protected and fortified;
My mind sets me on a journey,
To places where these are deprived!

Tears and cries; blood and bleeds;
Oh my Lord I wonder!
Has the world ever been filthier?!
Has humanity had a greater downfall?!
Has there been a greater discrepancy?!
Some gaze hard to hold onto those last humanity glints;
While the others, my Lord!
Have so willingly set their lives on the contrary trails.

Maybe by caste or tone,
Or country or gender, we may alter;
But hey consciousness!
Aren't you present inside every life matter?
How is it reasonable then,
That while some hearts are so fragile,
They bleed for a puppy's whimper;
While other hearts have brought me to surmise,

That diamonds aren't the hardest earth matter!

Tender and gentle, pure and mild!
Weren't we all were when we toddled?
When did we start varying in ways?
That I have started polling our very essence!



Maybe the crisis began,
When we set unknowingly on a journey
Of censoring our tendor conscious!
Some stopped at the outset,
While others continued to earn a dexterity.

Only those brains I presume could embark a missile,
So striking so intense,
To set a person burn alive.

"Mind" and "Conscious"

Oh my good Lord!

How did we think of them to be the same;

When one needs to be tamed and the other empowered,

When one is the horse and the latter,

The charioteer!

Now I pray to my dear
Oh my Lord!
Never give me that vigor,
To pilot my conscious!
Do help me master my mind
But oh my good Lord
I'm better off a slave to my conscious
Forever and all!

- Disha D E&C - A Section, 8th Semester

ಸೋಲು..!!

(ವಾಸ್ಕವ ಪರದೆ ಸಲಿಸುವ ಗುರು)

–ಎಮ್ ಎಸ್ ಶರತ್, MCA

ಬದುಕಿನ ಹಾದಿಯಲ್ಲ ಗೆಲುವಿನ ಕಡೆಗೆ ಹೆಜ್ಜೆಯಡುತ್ತಿದ್ದಾಗ ಕೆಲವು ಸಲ ಅನಿರೀಕ್ಷಿತವಾಗಿ ಸೋಲು ಎದುರಾಗುತ್ತದೆ. ನಮ್ಮ ಎಲ್ಲಾ ನಿರೀಕ್ಷೆಗಳನ್ನೂ ತಲೆಕೆಳಗೆ ಮಾಡಿ ಮೇಲಕ್ಕೆ ಏರಲಾರದಂತಹ ಪ್ರಪಾತಕ್ಕೆ ನೂಕಿಇಡುತ್ತದೆ. ಸೋಲನ್ನು ಯಾರೂ ಕೂಡ ಬೇಕೆಂದೇ ಆಹ್ವಾನಿಸುವುದಿಲ್ಲ, ಆದರೆ ಸೋತ ವ್ಯಕ್ತಿಯನ್ನು ಸಮಾಜ ನೋಡುವ ದೃಷ್ಟಿಕೋನವನ್ನು ಗಮನಿಸಿದಾಗ ಸೋಲನ್ನು ಅವನಾಗಿಯೇ ಆಹ್ವಾನ ಮಾಡಿಕೊಂಡನೇನೋ ಎಂಬಂತೆ ಭಾಸವಾಗಿಚಿಡುತ್ತದೆ. ಯಾಕೆಂದರೆ ಸಮಾಜದ ಬಹುತೇಕ ಮಂದಿ ಜೀವನದಲ್ಲ ಸೋತವನನ್ನು ಕೆಟ್ಟವನೆಂಬಂತೆ ಕಂಡು ಅವನೊಂದಿಗಿನ ತಮ್ಮ ಸಂಬಂಧವನ್ನು ಇದ್ದಕ್ಕಿದ್ದಂತೆಯೇ ಕಡಿದುಕೊಳ್ಳುತ್ತಾರೆ.!

ಒಂದರ್ಥದಲ್ಲ ಬದುಕಿನ ನಿಜವಾದ ಪಾಠ-ಪರೀಕ್ಷೆ ಎಲ್ಲವೂ ಅಲ್ಲಂದಲೇ ಪ್ರಾರಂಭ.! ಆಗಲೇ ಮಿತ್ರರು ಶತ್ರುಗಳಾಗುತ್ತಾರೆ, ಒಂದೇ ತಬ್ಬೆಯಲ್ಲ ಉಂಡವರು ಕೂಡ ವಿಷವನ್ನೇ ಉಣಬಡಿಸಲು ಹಾತೊರೆಯುತ್ತಾರೆ, ನಮ್ಮ ಜೊತೆಯಾಗಿ ಹೆಜ್ಜೆ ಹಾಕಿದವರು ಕೂಡ ಕಳ್ಳ ಹೆಜ್ಜೆಯಟ್ಟು ನಮ್ಮ ಚಲನವಲನವನ್ನು ಗಮನಿಸುತ್ತಾ ಅಣಕಿಸಲು ಪ್ರಾರಂಭಸುತ್ತಾರೆ, ಕೈಹಿಡಿಯಲೆಂದೇ ಜೊತೆಗಿದ್ದವರು ಅದಾಗಲೇ ಕೈಕೊಟ್ಟು ಪರಾಲಿಯಾಗಿ ಅಡುತ್ತಾರೆ, ಸಂತಸದ ಕ್ಷಣಗಳಲ್ಲ ಜೊತೆಯಾಗಿ ನಕ್ಕು ನಲದವರೇ ನಾವು ಸೋತಾಗ ಎಲ್ಲೋ ಮರೆಯಾಗಿ ನಿಂತು ಅಪಹಾಸ್ಯ ಮಾಡುತ್ತಾರೆ. ಮನೆಮಂದಿಯ ಪಾಲಗೂ ಸೋತ ವ್ಯಕ್ತಿ ಬೇಡದವನಾಗಿ ಹೊರೆಯಾಗಿ ಅಡುತ್ತಾನೆ. ನೋಟನ ಕಂತೆಯನ್ನೆ ಚಿಸುತ್ತಾ ಮನೆಗೆ ಮರಳುತ್ತಿದ್ದವನ ಮೇಲೆ ಪ್ರೀತಿಯ ಸುರಿಮಳೆಗೈಯುತ್ತಿದ್ದ ಮನೆಯವರೇ ಆತನ ಜೇಬು ಖಾಲಯಾದಾಗ ಶತ್ರುಗಳಂತೆ ವರ್ತಿಸತೊಡಗುತ್ತಾರೆ.

ಇವೆಲ್ಲಕ್ಕಿಂತಲೂ ಮಿಗಿಲಾಗಿ ತಮ್ಮವರೆನಿಸಿಕೊಂಡವರ ಕುಹಕದ <u>ಮಾತುಗಳಂದ ಉಂಟಾಗುವ ಮಾನಸಿಕ ನೋವು ಮಾತ್ರ</u> ಅತ್ಯಂತ ಅಸಹನೀಯವಾದದ್ದು. ಕೆಲವರು ಸಾಂತ್ವನ ಕೊಡುವ ನೆಪದಲ್ಲ ಸೋಲನ ಎಲ್ಲಾ ಕಾರಣಗಳನ್ನು ಎಳೆ ಎಳೆಯಾಗಿ ಇಡಿಸಿ ಕೆದಕುತ್ತಾ ಮಾನಸಿಕವಾಗಿ ಮತ್ತಷ್ಟು ಫಾಸಿಗೊಳಸಿ ಗಾಯದ ಮೇಲೆ ಉಪ್ಪು ಸವರಿಣಡುತ್ತಾರೆ. ಸೋತಂತಹ ವ್ಯಕ್ತಿಯೊಬ್ಬ ತನ್ನ ಸಮಸ್ಯೆಗೆ ಪರಿಹಾರ ಕೊಡುವವರಿಗಿಂತಲೂ ತನಗೆ ಮಾನಸಿಕ ಸಾಂತ್ರನ ಕೊಡಬಲ್ಲವರಿಗಾಗಿ ಹುಡುಕಾಡುತ್ತಿರುತ್ತಾನೆ. ಸೋಲನ ಸಂದರ್ಭದಲ್ಲ ಮಿತ್ರತ್ವ. ಬಂಧುತ್ವ. ಮಾನಸಿಕ ನೆಮ್ಮದಿ, ಊಟ– ನಿದ್ರೆ, ದೇಹದ ಮೇಲನ ಕಾಳಜಿ ಎಲ್ಲವೂ ನಷ್ಟವಾದಂತೆ ಭಾಸವಾಗುವುದು ನಿಜವಾದರೂ ಅದೇ ಸೋಲು ನಮಗೆ ವಾಸ್ತವ ಜೀವನದ ಕಟು ಸತ್ಯವನ್ನು ಅನಾವರಣಗೊಳ್ಳು ನಮ್ಮವರು ಯಾರು.? ಎಂಬುದನ್ನು ತೋಲಿಸಿಕೊಟ್ಟು ಬದುಕಿನ ಬಹುದೊಡ್ಡ ಗುರುವಾಗಿ ಅಡುತ್ತದೆ.!

ಪ್ರತಿಯೊಬ್ಬರ ಬದುಕಿನಲ್ಲಯೂ ಆ ಸೋಲನ ಹಂತ ದಾಣದಾಗಲೇ ನಿಜವಾದ ಬಂಧುಗಳನ್ನು ಆಲಿಸಿ ತೆಗೆಯಲು ಸಾಧ್ಯವಾಗುವುದು.! ಸೋಲನ ಬವಣೆಯಲ್ಲ ಬೇಯುತ್ತಿರುವಾಗಲೇ ಸಮಾಜದ ಜನರ ಇನ್ನೊಂದು ಅಸಲ ಮುಖದ ಪಲಿಚಯ ನಮಗಾಗುವುದು.! ವೇದಿಕೆಯ ಮೇಲೇಲಿ ಜನಸೇವೆಯ ಕುಲಿತು ಕಂಠಹಲಿದು ಭಾಷಣ ಅಗಿಯುವವರು ಕೂಡ ಯಾರದೋ ಸೋಲನ ಛಾಯೆ ಕಂಡಾಕ್ಷಣ ಸದ್ದಿಲ್ಲದಂತೆಯೇ ಜಾಲಿಕೊಳ್ಳುತ್ತಾರೆ. ಆಗಲೇ ಅವರ ನಾಲಗೆಯಿಂದ ಉದುರುವ ತತ್ವ–ವೇದಾಂತದ ಅಣಿಮುತ್ತುಗಳ ಯಥಾರ್ಥ ತಿರುಆನ ಸಾಚಾತನ ನಮ್ಮ ಕಣ್ಣಿಗೆ ಗೋಚಲಿಸಿಇಟ್ಟು ನಮ್ಮನ್ನು ಎಚ್ಚೆತ್ತುಕೊಳ್ಳುವಂತೆ ಮಾಡುತ್ತದೆ! ಗೋಡೆಗಳ ನಡುವೆ ಕುಳತು ಕೇಳುವ ವ್ಯಕ್ತಿತ್ವ ವಿಕಸನದ ಎಲ್ಲ ತರಗತಿಗಳಿಗಿಂತಲೂ ಉತ್ತಮ ಪಾ<mark>ಠವನ್ನು ಸ</mark>ೋಲು ನಮಗೆ ಆ ಕ್ಷಣದಲ್ಲಯೇ ಬೋಧಿಸಬಲ್ಲುದು.

ಪುಸ್ತಕದ ಹಾಳೆಗಳಲ್ಲ ಮುದ್ರಿಸಲ್ಪಣ್ಣರುವ ಎಲ್ಲ ಬೋಧನೆಗಳು ಓದುವುದಕ್ಕೆ ಚೆನ್ನಾಗಿರಬಹುದು ನಿಜ, ಆದರೆ ಕೆಲವು ಸಲ ವಾಸ್ತವ ಬದುಕಿಗದು ಉಪಯೋಗಕ್ಕೆ ಬರದೇ ಸಪ್ಪೆಯಾಗಿಇಡಬಹುದು. ಯಾಕೆಂದರೆ ಕಥೆ-ಕಾದಂಬರಿಗಳಲ್ಲ ಬರುವ ಕಾಲ್ಪನಿಕ ಬದುಕಿನಿಂತಲೂ ನೈಜ ಬದುಕು ಬಹಳಷ್ಟು ಭನ್ನವಾಗಿರುತ್ತದೆ. ರಂಗುರಂಗಿನ ಬದುಕನ್ನು ಹತ್ತಿರ<u>ೊಂ</u>ದ ನೋಡುವ ಅವಕಾಶ ಸಿಗುವುದು ಸೋತಾಗ ಮಾತ್ರ.! ಈ ಕಾರಣದಿಂದಲೇ ಅದೆಷ್ಟೋ ಜನ ಇತರರ ಬದುಕಿಗೆ ಉಪದೇಶ ಮಾಡಬಲ್ಲರೇ ಹೊರತು ತನ್ನ ಸ್ವಂತ ಬದುಕಿಗೆ ಬಂದೆರಗುವ ಸೋಲನ ಮುಂದೆ ಅಸಹಾಯಕರಾಗಿ ಅಡುತ್ತಾರೆ.!

ನಡವಆಕೆಯನ್ನು ತಿದ್ದಿಕೊಂಡು ಉತ್ತಮ ವ್ಯಕ್ತಿಗಳನ್ನಾಗಿ ರೂಪಿಸುವಲ್ಲ ಕೂಡ ಸೋಲನ ಪಾತ್ರ ಪ್ರಮುಖವಾದದ್ದು.! ಗೆಲುವಿನ ಹೊಸ್ತಿಲಲ್ಲದ್ದಾಗ ಕೆಲವರು

ಜಗತ್ತೇ ನನ್ನ ಕೈಯೊಳಗಿದೆಯನ್ನುವಷ್ಟು ಅಹಂಕಾರದಲ್ಲ ಮೆರೆದಾಡುತ್ತಾರೆ. ಮಾತೆತ್ತಿದರೆ ತಮ್ಮ ದರ್ಪದ ಮಾತುಗಳಂದ ಸಿಡಿಮಿಡಿಗೊಳ್ಳುತ್ತಲೇ ಸಮಾಜದ ಸ್ವಾಸ್ಥ್ಯ ಕೆಡಿಸಿಇಡುತ್ತಾರೆ. ಆ ನೆತ್ತಿಗೇಲಿದ ಮತ್ತನ್ನು ಇಆಸಲೆಂದೇ ಪ್ರಕೃತಿ ನಮಗೆ ಸೋಅನ ಮೂಲಕ ಪಾಠ ಕಲಸಿ ನಮ್ಮ ದುರ್ಗುಣಗಳನ್ನು ತಿದ್ದಿಕೊಳ್ಳುವಲ್ಲ ನೆರವಾಗುತ್ತದೆ.

ಸಾಮಾನ್ಯವಾಗಿ ಒಮ್ಮೆ ಸೋಲನ ಹೊಡೆತ ತಿಂದಾತ ಬಾಲ ಸುಟ್ಟ ಬೆಕ್ಕಿನಂತಾಗಿ ತನ್ನ ಹದ್ದು ಮೀಲಿದ ಹಾರಾಟಕ್ಕೆ ಸಹಜವಾಗಿ ಕಡಿವಾಣ ಹಾಕಿಚಡುತ್ತಾನೆ. ಅಥವಾ ಮುಂದೊಮ್ಮೆ ತಾನು ಯಶಸ್ಸಿನ ತುತ್ತತುದಿಗೇಲಿದಾಗಲೂ ಹಳೆಯ ನೆನಪುಗಳು ಮರುಕಳಸಿ ಗೆಲುವಿನ ಉನ್ಯಾದದಲ್ಲ ದಾಲಿತಪ್ಪದಂತೆ ಆತನನ್ನು ಜಾಗರೂಕನನ್ಯಾಗಿಸುತ್ತದೆ. ಪ್ರಖರವಾದ ಉಆಯೇೞಗೆ ಜಡಶಿಲೆಯೊಂದು ಸುಂದರವಾದ ಮೂರ್ತರೂಪ ತಳೆದು ಜೀವಂತಿಕೆಯ ಕಳೆಯೊಂದಿಗೆ ಗುಡಿಯಲ್ಲ ಅರ್ಚಿಸಲ್ಪಡುವಂತೆ, ಸೋಲನ ಒಂದೊಂದು ಹೊಡೆತಗಳು ಕೂಡ ನಮ್ಮ ಬದುಕನ್ನು ಸುಂದರಗೊಳಸುತ್ತವೆ. ಜೀವನದ ಪ್ರತೀ ಹಂತದಲ್ಲಯೂ ಆಗೊಮ್ಮೆ ಈಗೊಮ್ಮೆ ಅಪ್ಪಆಸುವ ಸಣ್ಣಪುಟ್ಟ ಸೋಲನ ಹೊಡೆತಗಳು ನಮ್ಮಲ್ಲ ಆತ್ಮಸ್ಥೈರ್ಯವನ್ನು ಉದ್ದೀಪನಗೊಳ್ಳು ದೊಡ್ಡದೊಡ್ಡ ಆಫಾತಗಳನ್ನು ಸಹಿಸಿಕೊಳ್ಳುವಷ್ಟರಮಟ್ಟಗೆ ನಮ್ಮನ್ನು ಗಟ್ಟಗೊಳಸುತ್ತದೆ.! ಅಲ್ಲಯತನಕ ಗೋಡೆಯ ಮೇಲೆ ಹರಿದಾಡುವ ಹಲ್ಲ, ಜರಳೆಗಳನ್ನು ಕಂಡರೂ ಬೆಚ್ಚಿಇೀಳುತ್ತಾ, ಇರುವೆಗಳ ಕಡಿತವನ್ನು ಸಹಿಸಿಕೊಳ್ಳುವುದಕ್ಕೆ ಹರಸಾಹಸಪಡುತ್ತಿದ್ದವರು ಕೂಡ ಒಮ್ಮೆ ಸೋಲನಲ್ಲ ಮಿಂದೆದ್ದ ಬಳಕ ಬದುಕಿನಲ್ಲ ಸಂಭವಿಸಬಹುದಾದ ಯಾವ ಆಫಾತಗಳಗೂ ವಿಚಲತರಾಗುವುದಿಲ್ಲ.! ಕೇವಲ ಸಿರಿವಂತಿಕೆಯ ಸುಖದಲ್ಲೇ ಬೆಳೆದು ಬದುಕಿನ ಯಾವ ಸೋಲನ ಅನುಭವವಿಲ್ಲದ ವ್ಯಕ್ತಿಯೊಬ್ಬ ಅನಿಲೀಕ್ಷಿತವಾಗಿ ತನಗೆದುರಾಗುವ ಚಿಕ್ಕಪುಟ್ಟ ಸೋಲನ ಆಫಾತವನ್ನು ಕೂಡ ಸಹಿಸಿಕೊಳ್ಳುವಲ್ಲ ವಿಫಲನಾಗಿಇಡುತ್ತಾನೆ.

ಸೋಲನ ಹೊಡೆತದ ತೀವ್ರತೆಯ ಪ್ರಮಾಣಕ್ಕೆ ಅನುಗುಣವಾಗಿ ಒಬ್ಬೊಬ್ಬರು ಅನುಭವಿಸುವ ಯಾತನೆಯೂ ಒಂದೊಂದು ಬಿಂತಿಯದ್ದಾಗಿರುತ್ತದೆ.ಸೋಲನ ಕಹಿ ನೆನಪನ್ನೇ ಮೆಲುಕು ಹಾಕುತ್ತಿರುವಾತ ಬದುಕಿನಲ್ಲ ಮುಂದೆ ಸಾಗುವ ದಾಲಿ ಕಾಣದೆ ಕುಆತಲ್ಲ ನಿಂತಲ್ಲ ಅದೇ ಯೋಚನೆಯಲ್ಲ ತಲ್ಲೀನನಾಗಿ ಹತಾಶನಾಗಿಇಡುತ್ತಾನೆ. ಅದರ ಪರಿಣಾಮವಾಗಿಯೇ ಮಾನಸಿಕವಾಗಿ ಮತ್ತಷ್ಟು ನೊಂದು ದೇಹ ಕೃಶವಾಗುತ್ತದೆ, ಅನಾರೋಗ್ಯ ಮುತ್ತಿಕೊಳ್ಳುತ್ತದೆ, ಮುಖದ ಕಾಂತಿ ಕಳೆಗುಂದಿ ಆತನ ಆತ್ಮವಿಶ್ವಾಸವೇ ಉಡುಗಿ ಹೋಗುತ್ತದೆ. ದೇಹಸೌಂದರ್ಯದ ಮೇಲನ ಕಾಳಜ ಕಡಿಮೆಯಾಗಿ ಉಡುಗೆ–

ತೊಡುಗೆ, ವಸ್ತ್ರ–ವಿನ್ಯಾಸಗಳೆಲ್ಲವೂ ನಗಣ್ಯವೆನಿಸಿಚಡುತ್ತದೆ. ಆತನಲ್ಲದ್ದ ಪ್ರತಿಭೆ, ಸೃಜನಶೀಲತೆ ಎಲ್ಲವೂ ಸೋಲನ ಮುಸುಕಿನಡಿಯಲ್ಲ ಬಂಧಿಯಾಗುತ್ತವೆ. ಸೋಲನ ಬೇಗೆಯಲ್ಲ ಸೊರಗಿ ಹೋದ ದೇಹ–ಮನಸ್ಸುಗಳು ಐಹಿಕ ಜೀವನದ ನಶ್ವರತೆಯನ್ನು ಬಹುಬೇಗನೆ ಅಥೆಕೃಸಿಕೊಂಡು ಇಡುತ್ತವೆ. ಆ ಕಾರಣದಿಂದಲೇ ಕೆಲವರು ನಿರ್ಲಪ್ತ ಭಾವದಿಂದ ಅಧ್ಯಾತ್ಮದ ಕಡೆಗೆ ಹೊರಆ ಶಾಶ್ವತ ಸತ್ಯವನ್ನು, ನೈಜ ಆನಂದವನ್ನು ಹುಡುಕುವಲ್ಲ ಮನಮಾಡುತ್ತಾ ಪಾರಮಾರ್ಥಿಕ ಪಥದಲ್ಲ ಸಾಗಿೞಡುತ್ತಾರೆ. ದೇವರನ್ನೇ ನಂಚ ಬದುಕುತ್ತಿರುವ ಆಸ್ತಿಕನೊಬ್ಬ ದೇವಲಿದ್ದರೆ ಹೀಗಾಗುತ್ತಿತ್ತೇ ಎಂದು ದೇವರ ಅಸ್ತಿತ್ವದಲ್ಲ ನಂಣಕೆಯನ್ನು ಕಳೆದುಕೊಂಡು ನಾಸ್ತಿಕನಾಗಿ ಇಡುವುದು ಹಾಗೂ ದೇವರಲ್ಲ ನಂಚಿಕೆಯಲ್ಲದಿರುವ ನಾಸ್ತಿಕನೊಬ್ಬ ಇನ್ಯಾದರೂ ದೇವರನ್ನು ನಂಚಿಕೊಂಡಲ್ಲ ತನ್ನ ಸಮಸ್ಯೆಗೇನಾದರೂ ಸಿಗಬಹುದೇನೋ ಎನ್ನುವ ಆಸೆಯಿಂದ ಆಸ್ತಿಕನಾಗಿ ಬದಲಾಗುವ ಎರಡು ವಿಭನ್ನ ಪ್ರಕ್ರಿಯೆಗಳು ಕೂಡ ಈ ಸೋಲನ ಸಂದರ್ಭದಲ್ಲಯೇ ನಡೆದುಹೋಗುತ್ತದೆ.! ಇನ್ನು ಕೆಲವು ದೃಢಮನಸ್ಸಿನ ಛಲವಾದಿಗಳು ಸೋಲನೊಂದಿಗೂ ಸೆಣಸಾಡುತ್ತಾ ಗೆಲುವು ದಕ್ಕುವವರೆಗೂ ಹೋರಾಡಿ ಯಶಸ್ಸಾಗುತ್ತಾರೆ. ಅದಿಲ್ಲದೇ ಹೋದ ದುರ್ಬಲ ಹೃದಯದವರು ಸೋಲನ ಹೊಡೆತವನ್ನು ತಾಳಲಾರದೆ ಅತ್ಮಹತ್ಯೆಗೂ ಶರಣಾಗಿ ಬದುಕನ್ನೇ ಕೊನೆಗೊಳಸಿಬಡುತ್ತಾರೆ. ಹೀಗೆ ಸೋಲನ ನಾನಾ ಮುಖಗಳು ಒಬ್ಬೊಬ್ಬರಿಗೂ ಒಂದೊಂದು ರೀತಿಯ ಅನುಭವಗಳನ್ನು ಕೊಡುತ್ತಾ ಸಾಗುತ್ತದೆ. ನಾವು ಯಾವ ಮನೋಭಾವದಿಂದ ಸೋಲನ್ನು ಸ್ವೀಕರಿಸುತ್ತೇವೆಯೋ ಅದರ ಫಲತಾಂಶದಂತೆ ನಮ್ಮ ಮುಂದಿನ ಭವಿಷ್ಯ ನಿರ್ಧರಿತವಾಗುತ್ತದೆ. ಯಾಕೆಂದರೆ, ಕೆಲವರ ಬದುಕಿನಲ್ಲ ಧನಾತ್ಮಕವಾಗಿ ಉತ್ತಮ ಪರಿಣಾಮಗಳನ್ನು ಇೀಲಿ ಅದ್ಭುತ ಬದಲಾವಣೆಗೆ ಕಾರಣವಾಗುವ ಸೋಲು, ಕೆಲವರಿಗೆ ಋಣಾತ್ಮಕವಾಗಿ ಪರಿಣಮಿಸಿ ಅವರ ಬದುಕಿಗೇ ಇತಿಶ್ರೀ ಹಾಡಿಇಡುತ್ತದೆ.!

ಸೋತವರಿಗೆ ಸಾಂತ್ವನ ನೀಡಿದಾಗ ಸಿಗುವ ಆತ್ಮತೃಪ್ತಿ ಗೆದ್ದವರ ಜೊತೆ ಸಂಭ್ರಮ ಹಂಚಿಕೊಂಡಾಗ ಸಿಗಲಾರದು. ಗೆಲುವಿನಿಂದ ಜೀಗುತ್ತಿರುವವನು ಅದಾಗಲೇ ಎಲ್ಲರ ಹೊಗಳಕೆಯ ಮಾತುಗಳಂದ ಉಜ್ಜಹೋಗಿರುತ್ತಾನೆ. ನಮ್ಮ ಸ್ಪೂರ್ತಿಯ ಮಾತುಗಳನ್ನು ಕೇಳುವ ವ್ಯವದಾನ ಆತನಿಗಿರುವುದಿಲ್ಲ, ಅದೇ ಸೋತು ಸುಣ್ಣವಾದವನಿಗೆ ನಮ್ಮ ಸ್ಫೂರ್ತಿಯ ಮಾತುಗಳೇ ನಾಳನ ಗೆಲುವಿಗೆ ಕಾರಣವಾಗಬಹುದು. ಒಟ್ಟನಲ್ಲ ಗೆಲುವಿಗಿಂತ ನಮ್ಮ ಸೋಲು ವಾಸ್ತವ ಪರದೆಯನ್ನು ಸರಿಸಿ ಬದುಕಿನಲ್ಲ ಬೆಳಕನ್ನು ಚೆಲ್ಲುತ್ತದೆ.

–ಆತ್ಮೀಯ

New Education Policy 2020

Highlights: School and Higher Education to See Major Changes

- · Education Policy modified after over 30 years.
- School complexes to be used for adult education program after school hours.
- More focus on vocational studies at the school-level.
- NIOS to develop qualitative modules for Indian Sign Language.
- · Pre- school section in Kendriya Vidyalayas.
- NCC wings in secondary and higher secondary schools under Ministry of Defence.
- · Free boarding facilities in JNV.
- Dedicated unit for digital and online learning.
- National Scholarship portal for SC, ST, OBC, SEDGs students to be expanded.
- Minimum qualification for teaching 4 year integrated B.Ed degree.
- HECI- Common regulatory body for entire higher education.
- · Various new provisions for children with disabilities.
- Education sector to get 6% of GDP, earlier it was 1.7%.
- · Bag-less days encouraged.
- Three language learned by children will be the choice of state, regions and students.
- Medium of instruction will be the local/ regional language.
- Indian Sign Language to be standardized across the country.
- No hard separation of streams for students.
- Experiential learning in all stages.
- · Content will focus on idea, application, problem- solving.
- · Curriculum content to be reduced.
- NIOS, open schools to offer courses for grades 3, 5 and 8.
- Nutrition and health cards, regular health check-ups for school students.
- National Mission on Foundation Literacy and Numeracy to be set up by MHRD.
- Early childhood care and education curriculum (ECCEC) to be carried out by MHRD, WCD, HFW, tribal affairs.
- Preparatory class Balavatika for children below the age of 5.
- Tech- based option for adult learning through apps, TV channels etc.
- Variable models for board exams annual, semester, modular exams.
- NTA to offer common entrance exam.
- 360 degree holistic report card for students.
- Importance of board exam to be reduced, exam can be conducted

twice a year.

- · Coding to be taught from class 6 onwards.
- National Curricular and pedagogical framework to be developed by NCERT.
- Financial Autonomy to be given to 45K affiliated colleges.
- · E-content in regional language.
- New Pedagogical and curricular structure.
- · Multiple entry and exit programme.
- Indian Institute of Translation and Interpretation (IITI) proposed.
- National Research Foundation (NRF) to be established.
- National Committee for integration of vocation Education -Lok Vidya.
- Best universities to set up campuses in other countries.
- HRD Ministry to be renamed as education ministry.
- International Students Office at each institution hosting foreign students.
- · Academic Bank to store credits.
- Undergraduate degree courses to have multiple exit options.
- IITs to become multidisciplinary institution, opening doors for humanities students.
- One large multidisciplinary institution in or near every district by 2030.
- All higher education institute to become multidisciplinary institutions.
- New Education Policy 2020 to bring major changes in country.

Collected by Dr Sudheer M
HOD-ME





Greetings Reader!!!

The COVID-19 has resulted in schools being shut all across the world. Globally, over 1.2 billion children are out of the classroom at their hometowns studying online by means of smartphones, laptops/computers. As a result, education has changed dramatically, with the distinctive rise of e-learning, whereby teaching is undertaken remotely and on digital platforms.

At this moment, I would like to express my perspective on the challenges and struggles faced by teachers at the back-end, in delivering quality education to students. Firstly, the unavailability of high-speed internet makes it extremely hard for teachers to engage with students and interact while teaching. Secondly, the lack of gadgets/accessories turn out to be an obstacle for online teaching as there are families that share a single laptop, which has to be utilised by the teacher and his/her child for making pdfs, presentations, attending classes, etc.

by Varun M,
Mechanical Dept



Then comes the real challenge, i.e. teaching subjects like Mathematics, Design and Analysis, Computer Aided Drawing, etc. which cannot be taught with the help of pdfs or presentations. It involves a lot of numerical approach, design procedures and, teachers face tremendous difficulty in solving problems on a white board in front of a tiny camera on a 15 inch display of laptop with the help of wired earphones mic over the neck. The struggle is real.

In spite of these hurdles, teachers show up on time every single day in order to deliver quality education with boosted energy and very good level of patience. A big round of applause to all the teachers working hard to gear up the lives of students during the pandemic.

Thank You.









Akshith Y MCA



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Computer Science & Engineering

WIZARDS OF TECH - 2020



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"If you don't go after what you want, you'll never have it.

If you don't ask, the answer is always no.

If you don't step forward, you're always in the same place."

- Nora Roberts

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Be alone, that is the secret of invention; be alone that is when ideas are born as a way to succeed is alwa.

-Thomas Edison

Electrical & Electronics Engineering

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- Christian D. Larson

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The future belongs to those who believe in the beauty of their dreams.

- Eleanor Roosevelt

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