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Civil Bytes-2018

DEPARTMENT OF CIVIL ENGINEERING-SJEC VAMANJOOR, MANGALORE

DIRECTOR'S MESSAGE

It gives me a great sense of joy and pride to write down a small message for the magazine "Civil Bytes 18", a magazine released by the Civil Engineering Department on the occasion of Nirmaan - 2018.



The Department of Civil Engineering has conducted a lot of events which were a success. These departmental activities will surely help the students and the faculty members to explore their talent and potential to the fullest in the years to come.

I appreciate the efforts put in by all the students, faculty members, and editorial committee members for releasing this book. Kudos to the job well done! I'm certain that all the readers of the magazine would thoroughly enjoy reading this book and being a part of the success story.

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

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

ASSISTANT DIRECTOR'S MESSAGE

A year filled with lot of activities and learning has come to an end. As we look back through this magazine, it's been an enriching experience to the students as well as to the faculty. The Department is very active in its approach to the learning aspect of the students through various technical activities, technical competitions, team work, guest lectures, industrial visits etc. It has molded its student as industry ready engineers. I appreciate the hard work of the HOD and the faculty for their constant guidance and dedicated service. I wish all the students a fruitful learning year ahead.



Rev. Fr Rohith D'costa, Asst Director-SJEC

Editorial Team



Mr. Yakshith Kumar (4SO15CV063)
Final Year Student



Mr. Govinda Krishna M
Asst. Professor



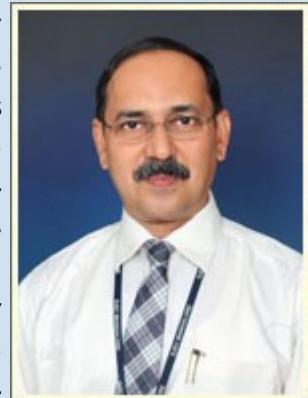
Mr. Prashanth M (4SO 15CV042)
Final Year Student

PRINCIPAL'S MESSAGE

“Education is not preparation for life; education is life itself”, as rightly said by John Dewey, I am very much delighted to know the transformation in the Civil Engineering students at SJEC year by year towards their holistic development as well to see their marks left behind to be remembered in the years to come. Civil Engineers play an extremely important role in the society and are responsible for maintaining the overall safety of society in a number of ways.

In this regard, I congratulate the HOD and the faculty members for bringing up the department with the positive spirit and approach as reflected in the magazine, “Civil-Bytes 2018”. I also congratulate all students for their participation and achievements in academics and co-curricular activities. May god bless you in prospering further.

Dr Rio D'Souza

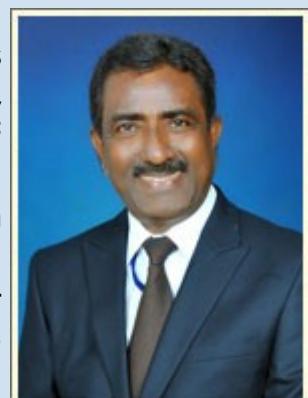


CHIEF R&D'S MESSAGE

Civil Engineering is an excellent branch of Engineering, which has the longest history. From the early times, using the primitive technology for its various constructions wonders across the world, may it be buildings, bridges, dams and other well-known landmarks, the Civil Engineers of yester years have changed the face of the world. Today, this branch of Engineering is employing the most advanced technology in the design and construction activities. The use of modern technology has enabled the contemporary Civil Engineer to develop a project from the concept to the completion of the venture virtually without moving a brick. Adding to this he can foresee and predict its life expectancy before anything is built and incorporate changes, if need be. Thus, the use of software based CAD tools have empowered today's Civil Engineer various competencies that have resulted in the exponential growth of their capabilities and we are witnessing the construction of wonderful structures that are taller, bigger and better and even unimagined. This clearly indicates that the Civil Engineers in the making need to get themselves equipped with all the required knowledge to deliver once they enter into field professing Civil Engineering.

It's quite nice to know that the Faculty and students of Civil Engineering department are bringing out their annual Newsletter “Civil Bytes”. I am well aware of their engagements across the year through invited lectures, field visits, workshops, internships, etc. These are essential to be imbibed by the budding Civil Engineers to grow as competent Civil Engineer. I am happy that this repertoire will give us in detail the activities conducted in shaping our promising Engineers. I congratulate the HOD, the faculty members and all the students in presenting this Newsletter to its readership and I wish them all the best.

Dr Joseph Gonsalvis



HOD'S MESSAGE

The editorial team and I are delighted to present the 3rd issue of E-magazine “Civil Bytes 2018”. There is a good saying about Civil Engineers “Scientists study the world as it is: Civil Engineers created the world that has never been”. Although our students learn only bits and parts of constructing structures we believe it may take a few years after passing out to master the art of designing, constructing and maintaining structures.

We at SJEC believe in the holistic growth of our students and therefore 2018 was a year filled with activities and events. We invited people from the Industry and the best moment was when one of our Alumni Ms. Ashmitha Castelino delivered a motivational talk to our students. Further our visits to construction sites, offering mini projects and internships enhanced the learning capacity of our students. I thank our Faculty for their efforts in delivering the best to our students. It is also the aim of the Management and us to instill confidence and sense of responsibility among students besides being contributors to the society. I congratulate Mr. Govinda K and the Editorial Team in their efforts.



Dr Nalini Rebello

DEPARTMENT VISION

To impart technical education and nurture research in Civil Engineering to meet needs of the society

DEPARTMENT MISSION

1. Deivercurricula for students to meet the national and global demands of industry, society and research
2. Strengthen the practical skills of students through interaction with industry
3. Promote research and consultancy in all aspects of Civil Engineering
4. Provide skilled training in emerging aspects of design and construction
5. Develop in students and staff the spirit of innovation and professional ethics

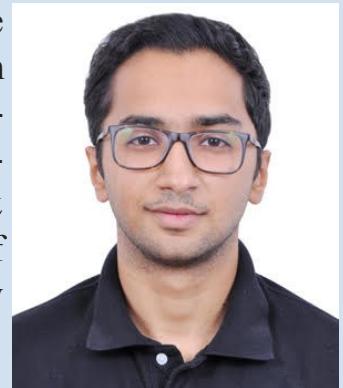
PROGRAMME EDUCATIONAL OBJECTIVES

1. To impart to students in depth knowledge of Civil Engineering subjects to solve practical problems using modern techniques.
2. To develop in students the ability to plan, analyze, design and construct structures from the foundation to the superstructure level with cost-effective design methods.
3. To develop in students the ability for successful careers as entrepreneurs and to pursue research.
4. To enable in students the ability to identify issues related to the environment and find suitable solutions.
5. To train students to understand the ethical responsibility of Civil Engineering profession and apply relevant code for engineering practice while delivering service to the nation.

ALUMNI MESSAGE

Graduating High School from the gulf I always expected my college life to be identical. My life has been different after joining St. Joseph Engineering college. From being that boy who knew basics of integration & differentiation to carving a technically sound civil Graduate has provided every opportunity for students like us to dream & practice what we love. I whole heartedly thank the entire fraternity of Civil who not only guided us but took care of all our needs in every aspect.

I would like to wish all my fellow juniors a fruitful time at SJEC.



The world is yours to conquer with success. Dare to dream, for those who look forward to achieving heights can only do so by working for it. Best of luck for your future Endeavors.

Mr. Mishal Gamal M. M. Hassan

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BACKGROUND OF THE DEPARTMENT

The Department of Civil Engineering started in the year 2012 with the first batch of undergraduate students graduating in 2016, has currently 62, 66, 67 & 53 students in final, pre-final, second and first year respectively. The Civil Engineering department aims to produce graduate engineers equipped for careers in the public and private sector encompassing areas such as structural engineering, geotechnical engineering, water resources, transportation, environmental and construction industries. The faculty is well trained in all major specializations of Civil Engineering. Spacious and well equipped state-of-the-art laboratories and computing facilities are the mainstay of the Department. Frequent visits by professionals from the construction industry and guest lectures by visiting faculty provide practical experience and keep students abreast with the latest advancements. Apart from the syllabus, extra activities like manual modeling and 3D AutoCAD modeling of structures are also conducted. The Department also offers consultancy services for soil testing and concrete testing to construction sites in and around Mangaluru. About 200 sq m of lab area for Environmental Engineering as well as for CAD lab, have been built during the academic year 2015-2016.

ACTIVITIES

Inauguration of 'Nirman'

The Department of Civil Engineering at SJEC inaugurated the activities of its students' association –NIRMAN, on 20th September 2017 at 3:00 pm in Bishop Aloysis Paul Hall. Dr Shivashankar, Professor in the Department of Civil Engineering - NITK was the Chief Guest of the program. Rev. Fr Wilfred Prakash D'Souza,



Director-SJEC presided over the function. Dr Joseph Gonsalvis, Principal-SJEC was the Guest of Honour. Dr Nalini Rebello, Head of the Department of Civil Engineering, Ms Ivy Savia Dantis, Coordinator of NIRMAN, Mohammed Zuhail - President of NIRMAN were also present on the dais.



Dr Nalini Rebello welcomed the gathering and introduced the Chief Guest. The students' Association was inaugurated by the lighting of the lamp. The oath was administered to the Office Bearers by the Chief Guest. President of NIRMAN presented the annual report of Association Activities for the year 2016-17 and proposed the plan of events for the current year. Meritorious students from each class were felicitated by the guests.



Dr R Shivashankar in his speech encouraged the students to pursue higher education and keep in contact with the alma mater, faculty, and classmates. He also mentioned that even though the placement scenario may not be very positive to Civil students but there is always scope for Civil Engineering. Rev. Fr Wilfred Prakash D'Souza in his presidential address motivated the students to secure good marks. Ms Ivy Savia Dantis proposed the vote of thanks. The inaugural was followed by cultural activities by the students.

Invited Lecture on Law for Civil Engineers & Code of Ethics to Practice Civil Engineering

Technical talks on Law for Civil Engineers & Code of Ethics to Practice Civil Engineering were organised by the Civil Engineering Students' Association - NIRMAN along with Association of Consulting Civil Engineers (India), Mangalore Centre, on 21st September at 11:00 am in Bethania Hall. Dr Premananda Shenoy, Structural Engineer, Roy & Shenoy Consultants, Mangaluru, and Dr Suresha S N, Professor, Department of Civil Engineering, NITK were the resource persons. Dr



Premananda Shenoy gave his presentation on the topic Law for Civil Engineers. He informed the students about the differences between the civil law and the criminal law.



He also spoke about the architectural bill and association of Institute of Engineers Bill. Finally, he explained about the various documents to be prepared for taking up any consultancy work.



Dr Suresha S.N. delivered his talk on Code of Ethics to Practice Civil Engineering. He discussed the importance of need for ethics in professional practices. He also explained about the unethical practices which are followed in Civil Engineering related works.

The session concluded with an interaction with the students followed by Vote of Thanks.

A seminar on Water Resources, Prevention and Control of Water Pollution

A seminar on Water Resources, Prevention and Control of Water Pollution was organized for high school students of Shubodaya Vidyalaya, Mudushedde on 28 February



2018 by the Department of Civil Engineering of SJEC - Mangaluru under the guidance of Mr

Prashant Kurdekar, Assistant Professor in the Department of Civil Engineering at SJEC.

A team of final year civil engineering student consisting Mishal, Kavya, Chaitra Shetty, Harshitha, Minol, Roger, and Junius delivered the presentation to the school students. The



seminar aimed at providing knowledge about the water resources and spread awareness on water conservation, water management, prevention and control of water pollution among the young minds. The students appreciated the presentation and actively interacted to gain more information on water conservation, water pollution and water management.



Technical Talk on Financial Management of live projects

NIRMAN, the students association of the Department of Civil Engineering organized a technical talk on Financial



Management on Live Projects by Prof Raghavendra Holla, Department of Civil Engineering at MIT - Manipal on 12 March 2018 at Bishop Aloysis Paul Hall for V Semester students.

Prof. Holla spoke about actual application of financial management in site along with examples and showed major aspects of monitoring live project using excel sheet. The talk helped the students in enhancing their



knowledge and students were able to practically understand the concepts of management. Furthermore, students understood the difference between theoretical knowledge and actual application in site.

Motivational Talk by Alumni

The Department of Civil Engineering organized a motivational talk under Entrepreneurship Development Cell on 15th March 2018 from 2:15pm to 2:45pm in Bishop Aloysis Paul Hall



for Final Semester students. Ms Ashmitha Castelino, Alumni of SJEC and Gold medallist under VTU, currently working as Design Engineer, at Roy & Shenoy, Mangaluru delivered the talk. The talk was aimed to motivate students. Ms Vishika, 8th semester student compered the session. Ms Ivy Savia Dantis welcomed the guest with a flower.

Ms. Ashmitha explained the importance of being active and learning details of various aspects during the engineering programme. She said that all the theory especially the derivations that is learnt during the four years is never used in the field. Learning happens when people start working. She also motivated the students to know the availability and market rates of building materials and also made a mention that students do not understand the importance of talks and other motivation during the Programme and only realise its value after passing out the College. Often times there is a disconnect between reality and what is delivered in class and hence she requested faculty members to take students to construction sites and explain structural details. Dr Nalini Rebello gave the memento to the guest and appreciated her talk. The session concluded with an interaction with the students followed by vote of thanks.



Engineer's Day

The Department of Civil Engineering celebrated the Engineers' Day on Wednesday, 27th September 2017 at 2:00 pm in the SJEC Courtyard. The president of the function was Dr Nalini Rebello, HOD of Civil Engineering - SJEC. On this occasion, activities were conducted by the organizing committee .The events organized were as follows:



1. Technical Quiz :

Conducted to check the knowledge of students in general science, current affairs and technical knowledge, where all the students of Civil Engineering Department had participated for the qualification round. Later in the second round 10 students from each year were selected for further rounds, finally one student from 2nd year, 3rd year and 4th year made it to the finals. Results of the event were:

I Place – Sanjana (7th sem), Anoop G (5th sem) and Swasthi (3rd sem)

II Place – Abdul Basheeth (7th sem), Mahima (5th sem) and Theerth Kumar (3rd sem)

2. Sand Casting – was conducted to evaluate the designing skills and their imaginations in the field of construction. Results of the event are –

I Place – Kaushik, M V Ganesh, Mithun Raj and Prashanth from (7th sem)

II Place – Anoop G, Adithya Rao, Dheeraj Hegde and Ankith from (5th sem) Judge for the event: Mr Sharon Mendonca, Assistant Professor, Mechanical Engineering Department - SJEC

3. Wealth Out of Waste – was conducted to examine the talent of student in utilizing the available resources (i.e. waste material) for constructing civil structural models. Results of the event are:

I Place – Abhijeeth A, Harshith B and Vishika K from (7th sem)

II Place – Aashay M A, Pradeep and Lyle Nazvil D'Souza from (7th sem), Judge for the event: Mr Sharon Mendonca Assistant Professor in the Mechanical Engineering Department – SJEC.

Industrial Visit to M.M Constructions, Mangaluru

The Department of Civil Engineering at SJEC organized an Industrial Visit to M.M Construction, Mangaluru on 24th October, 2017 for V Semester students. Three faculty members Ms Bhavya, Mr Chitharanjan M, and Mr Vijay H accompanied a group of 64 students.

M.M Construction, Mangaluru is a construction company and the visit aimed at making students understand the reinforcement detailing and construction work. The visit helped the students in enhancing their knowledge pertaining to construction drawings, shuttering/centring work, formwork, placing of steel reinforcement and detailing of reinforcement on



site as per design.

The students observed positive & negative reinforcement in different components of structure, development length & standard hook required for placing the reinforcement. The provision of cover to reinforcement to avoid corrosion according to IS codes were noticed.



Furthermore, it made the students to understand the importance of safety required in construction sites to avoid accidents.

Industrial Visit to Nirmithi Kendra, Surathkal

The Department of Civil Engineering at SJEC organized an industrial visit to Nirmithi Kendra on 31st October 2017 for second year students. The faculty members Ms Ivy Savia Dantis, Mr Sachin U and Ms Pratibha accompanied 67 students. Nirmithi Kendra was established under the



National Network of Building Centers in India. It is the centre for the cost effective technologies. The visit was aimed at making students to understand and visualize the various alternative building materials and alternative technologies. Director of Nirmithi Kendra Er Rajendra Kalbavi explained the various types of arches, filler slab, ferrocement structures etc. The employees of Nirmithi Kendra gave the live demo by constructing an arch. The visit helped the students to understand the alternative technologies, which reduce the cost of the structure and which are eco-friendly.



Industrial visit to Water Treatment Plant, Intake Structure and Vent Dam at Tumbe and Sewage Treatment Plant at Kavoor, Mangaluru

the intake structure (jack well), onsite water treatment process, and make them aware about various wastewater treatment processes in the municipal treatment plant. In Water Treatment Plant, students observed the different water treatment processes such as Aeration, Flocculation, Sedimentation, Filtration and Disinfection process. Students also visited to the Laboratory where they could notice various laboratory equipment and the onsite procedure for water quality analysis.



The Department of Civil Engineering organized a one-day industrial visit to Water Treatment Plan, Intake Structure and Vent Dam at Tumbe and Sewage Treatment Plant at Kavoor, Mangaluru on 3 November 2017 for VII Semester students. Three faculty members Mr. Vinod T D'Souza, Mr. Prashant Kurdekar and Ms. Apoorva K V accompanied a group of 58 students. The main objective of the visit was to provide exposure to students on



Next visit was to the Sewage Treatment Plant situated at Mullakad, Kavoor in a 4 acres area, which is designed and constructed by L&T constructions. The capacity of the treatment plant is 43.5 MLD (million liters per day) and consisted of 9 pumping station in the Mangaluru vicinity from where the sewage is pumped to the treatment plant. The total sewage produced by the city is around 22 to 23 MLD. The treatment plant consist of preliminary treatment method, primary treatment method and secondary treatment methods for treating the municipal wastewater.

Industrial visit to New Mangalore Port, Mangaluru

The Department of Civil Engineering organized an industrial visit to NMPT Mangaluru on 13th November 2017 for the V Semester students. Three Faculty members Mr Vijay H, Mr Manjunath B and Ms Vani D accompanied a group of 64 students. New Mangalore Port is a



shipping port and the visit was aimed at understanding the layout of the port and the various processes like halting of the ship, ship/vessel repair etc. The visit helped the students in enhancing their knowledge and the students were able to practically understand the concepts. Furthermore, students were able to understand the difference between natural and artificial harbor and how the port location should be selected, so that the location is able to be connected by various means of transport.



Industrial visit to Shri Devi College hostel construction site



The Department of Civil Engineering organized a one-day Site visit for the 8thsemester Civil Engineering students, on

03/04/2018, to a construction site located opposite Sree Devi College Office, MG. Road - Mangalore. Three faculty members Ms. Apoorva K V, Mr. Chitharanjan and Dr. Nalini Rebello, HOD-Civil Engineering, accompanied a group of 22 students. The site under construction is a site to be used for a hostel intended to have 7+1 floors. Total number of piles that are to be installed at the site are 121 in number of which 46 piles were already installed at the site. The piles are 600mm in diameter and are designed to carry a load of 160T with diameter of 16mm as the main reinforcement.

The water table at the site was at 1m depth and upon excavation, it was noticed that in some places there were soft pockets of soil like Lithomargic clay (Shedi soil) which is a very weak soil. At a few places, piles were installed at a very short depth of 8m and at a few places at deeper depths of upto 17m.



Students were able to observe the two locations of piling: In the first one a combination of chisel and bailer were used to excavate the soil mass and water present. The cables were placed on a tripod, which was used for raising and lifting the chisel and the bailer. A 3 m casing was also provided at that particular site. In the second location, the process of pouring of concrete into the borehole with simultaneous jetting of the chisel into the ground was observed. In addition to piling students observed concreting procedure and bar bending for the main reinforcement of the piles. The site visit provided a wholesome experience of construction practices adopted at sites.

Industrial visit to Varahi Hydro Electric Project

The Department of Civil Engineering organized an industrial visit to Varahi Hydro-Electric Project on 8 May, 2018 for the second year students. A total of 61 second year students participated in the industrial visit, accompanied by three faculty members, Mr Vinod T Dsouza, Ms Apoorva K V, and Mr Sachin U.

The
visit
was



aimed at enhancing the knowledge & visualization of hydro - electric power plant, dam site and hydraulic machines used in power generation. The visit was aimed at enhancing the knowledge & visualization of hydro - electric power plant, dam site and hydraulic machines used in power generation. The blue print of the entire power plant along with a video was explained to the students. It was stated that Varahi hydro power plant has an installed capacity of 230MW each at stage I and stage II, contributing a total of 1100MU annually. This consists of 4 x 115 MW Generating Units at Varahi underground Powerhouse and two

4.5



MW units in the power house at the Mani Dam site. The technical specifications of Pelton Wheel turbine used in Varahi hydro power plant were explained to students. Additionally, the practical aspects of control room and the working of the entire power plant, which includes turbine, lubricants used, transformers, nozzle, etc. were explained in detail. The visit helped the Civil students to gain an in-depth practical knowledge on layout of a hydro -

EXTENSIVE SURVEY CAMP 2017-18

The Department of Civil Engineering organized an Extensive Survey Camp for the Academic Year 2017-2018 from 16 to 21 January 2018 for V semester students at Perlampady, Puttur. The Survey camp was inaugurated on 16 January 2018. A group of 66 students was

taken to the Survey Camp site along with Civil Engineering Faculty. During these six days, students were exposed to practical difficulties of surveying and learned to solve them. The following projects were assigned to the students under the supervision of faculty.

- Detailed surveying of a new road for a length of 1.2 Km.
- Construction of New tank for storing the water and design of a canal.
- Increasing the bund height of an existing tank.
- Design of water supply and sanitation to the existing and future population for a village near Perlampady.

All students enjoyed the experience of surveying



and learned many aspects of surveying by practically conducting the projects through Total Station as per guidance given by the faculty members. Four batches of students had a work schedule from 8:30 am to 12:30 pm, other four batches students had a work schedule from 1:30 pm to 5:30 pm, and the free batch students were carrying out parallel sessions of AutoCAD related work. The students obtained extensive hands-on experience on the use of land surveying instruments. It helped the students to learn surveying practically with usage of the instruments with confidence, and it helped them to work as a team.

TIARA-18

The National Level Tech Fest TIARA-2018 was held on the 21st and 22nd February 2018 at St Joseph Engineering College, Mangaluru. TIARA-2018 was inaugurated at the Kalam Auditorium of SJEC. Mr Ivan Fernandes, Managing Director and Promoter of Regent Technologies, Dubai and Mangalore Internet City Pvt Ltd. was the Chief Guest of the programme. Dr Joseph Gonsalvis, principal, SJEC welcomed the gathering and introduced the chief guest.

The Department of Civil Engineering conducted 4 events.

CENTRE LINE MARKING

The technical event was open for civil engineering students each team with three participants. They were asked to mark the centre line on the ground for the given plan. Judgement was based on the accuracy, time taken and for the neatness.

Winners of the event: Mr Jagadeesha, Mr Damodar Shenoy and Mr Rakshith R Shetty and Mr Praveen S, Mr Thanesh Shetty and Mr Ashwath H



CID (Civil Investigation Department):

A competition which consisted of preliminary round and Final Round. The preliminary round is a Crossword puzzle and riddle round. First ten teams which completed the preliminary round were qualified to the next Round. In the Final round teams were given a Crime Scene. Team which solved the mystery won the case. Mr Govinda Krishna M, Assistant Professor,



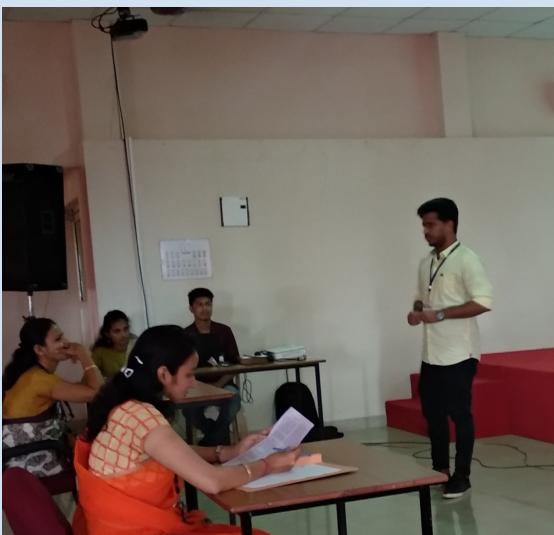
Department of Civil Engineering and Mr Prashanth Kurdekar, Assistant Professor, Department of Civil Engineering judge the event. Ms B Ishwarya, Mr Sayed Aseem and Mr Salman Kachi of SJEC, won the first place and the second place was bagged by Mr Melroy Dsouza, Mr Madhusudhan and Mr Akarsh of SJEC. Event coordinator was Mr Sachin U along with student coordinators Mr. Abdul Basheeth and Ms. Sharon Noronha of fourth year Civil Engineering with ten volunteers coordinated the event.

TIARA-18

INNOVATIVE MIND

Innovative Mind is a paper presentation competition conducted by Department of Civil Engineering on 21-02-2018 on occasion of TIARA-2018.

Students were asked present on “Smart City” or



“Environmental aspects in Engineering” for 10 minutes. Ten internal and seven external teams presented their papers. Ms Apoorva K V, and Ms.Vani D, Assistant Professor, Department of Civil Engineering judged the event. Mr Justin Daryl Dsouza of SDIT and Ms Deekshitha K of SJEC shared the first place and the second place was bagged by Mr Rwithik B and Ms Pooja L of SJEC.

RACE FOR GLORY

Race for Glory a nontechnical event consisted of five rounds which included general knowledge quiz, memory test and one minute games. Ninety five teams registered for the event and eighty six internal, nine external teams participated in the event. Mr. Manjunath B and Ms Bhavya Assistant Professor, Department of Civil Engineering were

the judges for the event.
Ms Rhea



Salome Cutinha, Mr Zian Shafi and Mr Stellon Franklin Toras of SJEC won the first place and the second place was bagged by Mr Floyd Saldanha, Mr Vishal Monteiro and Mr Shashanka Subramanya of SJEC. Event coordinator was Mr Vijay H along with student coordinators Mr Minol Raylon D'Souza, Mr Junius Pereria along with twenty volunteers of Civil Engineering department

coordinated the event.

FACULTY ACHIEVEMENTS

Dr Nalini Rebello

Attended a Two Day Workshop on " Applications of Remote Sensing and GIS in Civil Engineering" , A.J. Institute of Engineering and Technology, Mangalore, from 3rd and 4th May 2018.

Dr. B Radheshyam

Attended a two days Workshop on "Revit Architecture" from 9th and 10th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Attended a three days Workshop on "Course Content and Management" from 16th to 18th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Attended a one-day refresher workshop on "New Age Skills for Excellence in Teaching" held on 16 Feb 2019, held at St Joseph Engineering College, Vamanjoor.

Dr.B Yajneswaran

Awarded with PhD on 16th Annual Convocation at NITK Surthkal for the research work on 'Parametric Study In Soil Structure Interaction Of A Diaphragm Wall Type Berthing Structure' in the department of applied mechanics and hydraulics on 10th November 2018.

Mr. Govinda Krishna M

Attended a two days Workshop on "Revit Architecture" from 9th and 10th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Attended a three days workshop on "FEEL TEACHER" held on 02nd to 04th July 2018, at St Joseph Engineering College, Vamanjoor, Mangalore

Attended a three days Workshop on "Feel Teacher" from 2nd to 5th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Attended a three days Workshop on "Course Content and Management" from 16th to 18th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Successfully completed NPTEL online certification courses on "Concrete Technology" and "Outcome Based Pedagogic Principles for Effective Teaching", conducted by IIT Madras

Ms. Bhavya

Attended a workshop, "Revit Architecture" held on 09th to 10th July 2018, Department of Civil Engineering at St Joseph Engineering College, Vamanjoor, Mangalore.

Attended a three days workshop on "FEEL TEACHER" held on 02nd to 04th July 2018, at St Joseph Engineering College, Vamanjoor, Mangalore

Attended "New age skills for excellence in teaching" held on 3rd March 2018 , organized by St. Joseph Engineering College, Mangaluru

Attended a workshop, "Immersive training on Pedagogy, Assessment and institutionalization of best practices" held from 29th January to 2nd February 2018 organized by KLE technological university, Hubballi.

Attended a workshop, "Development of sustainable smart cities: Perspectives on Engineering Challenges" held on 3rd & 4th January 2018, organized by Mangalore Institute of Technology and Engineering, Moodbidri

Attended a workshop, "Immersive training on Pedagogy, Assessment and institutionalization of best practices" held from 29th January to 2nd February 2018 organized by KLE technological university, Hubballi

Attended a workshop, "Development of sustainable smart cities: Perspectives on Engineering Challenges" held on 3rd & 4th January 2018, organized by Mangalore Institute of Technology and Engineering, Moodbidri

Mr. Manjunath B

Three days Management Development Program on "Agile Leadership in Changing Business Environment" from 25th to 27th July 2018 at St Joseph Engineering College, Vamanjoor, Mangaluru.

Two day Workshop on "Revit Architecture", from 9th to 10th July 2018 at St Joseph Engineering College, Vamanjoor, Mangaluru.

Three Day Workshop on "FEEL TEACHER", from 02nd to 04th July 2018 at St. Joseph Engineering College, Mangaluru along with CLHRD.

Three Day Workshop on IUCEE International Engineering Educator Pre - Certification workshop on 02nd to 04th July 2018 at St. Joseph Engineering College, Mangaluru.

Mr. Prashant Kurdekar

Attended Two Day Workshop on "Intellectual Property Rights" conducted by SJEC in association with KSCST, IISc, Bengaluru, CIPAM & Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, GOI, New Delhi from 21st to 22nd February 2019.Attended One and half week online workshop by NPTEL-AICTE Faculty Development Programme on "Geoenvironmental Engineering (Environmental Geotechnology); Landfills, Slurry Ponds & Contaminated Sites from (Jul-Oct 2018).

Completed NPTEL Online Certification course on Geoenvironmental Engineering conducted by IIT madras.Attended One Day Workshop on "Information discovery- tips, tools and technologies," conducted by St Joseph Engineering College and organised by Library Advisory Committee-IEI-SJEC on 14th July 2018.

Attended Two Days Workshop on "Revit architecture" conducted by St Joseph Engineering College, Vamanjoor and organised by Department of Civil Engineering, SJEC, Vamanjoor from 9th July to 10th July 2018.

Attended Three Days Workshop on "Feel teacher" conducted by College of Leadership and Human Resource Development (CLHRD) organised by St Joseph Engineering College, Vamanjoor from 2nd July to 4th July 2018.

Attended One Day Workshop on "New model curriculum for first year be/b.tech-cbcs detailed syllabus (2018-19) as per outcome-based education (obe) format including course outcomes (co) and blooms taxonomy" conducted by Sahyadri College of Engineering and Management, Mangaluru and organised by Visvesvaraya Technological University, Belagavi on 19th May 2018.

Had attended Two Days National Seminar on "Capacity building training program on the usage of energy conservation building code (ecbc)-2014" conducted jointly by Bureau of Energy Efficiency [BEE] and Karnataka Renewable Energy Development Ltd. [KREDL] and organised by Visvesvaraya Technological University, Belagavi from 22nd Jan to 23rd Jan 2018

Ms. Apoorva K V

Attended One Week Faculty Enrichment Program on "Fluid Mechanics", TEQIP 1.3 sponsored, conducted by Visvesvaraya Technological University, Centre for Postgraduate Studies, Kalaburagi from 27th to 31st August, 2018.

Attended Two days workshop on "Basics of MATLAB and its application in Engineering Mathematics" organized by Department of Mathematics, SJEC , Vamanjoor, Mangaluru on 17th and 18th December, 2018.

Attended One day workshop on "Information Discovery-Tips, Tools and Technologies" organized by Library Advisory Committee in collaboration with IEI-SJEC, Vamanjoor, Mangaluru on 14th July, 2018.

Attended Two Days workshop on "Revit Architecture" on 9th and 10th July, 2018 Organised by Department of Civil Engineering, SJEC Mangaluru.

Attended Three days workshop on "Feel Teacher" Learning And Development Intervention, organized by SJEC , Vamanjoor, Mangaluru and conducted by College of Leadership and HRD, Mangaluru, from 2nd through 4th July, 2018.

Two day National Workshop on Applications Of Remote Sensing & Gis In Civil Engineering on 3rd & 4th MAY 2018 organised by Department of Civil Engineering, AJIET, Mangaluru.

Mr. Sachin U

Attended a three days workshop on "FEEL TEACHER" held on 02nd to 04th July 2018, at St Joseph Engineering College, Vamanjoor, Mangalore

Attended two days workshop on Quality Assurance in Engineering Education through OBE from 30th and 31st January, 2017 held at St Joseph Engineering College mangaluru

Participated two day international workshop on development of sustainable smart cities: perspectives on engineering challenges held at Mangalore Institute of Technology and Engineering, Moodbidri from 3rd and 4th January 2018

Two day Workshop on "Revit Architecture", from 9th to 10th July 2018 at St Joseph Engineering College, Vamanjoor, Mangaluru.

Completed NPTEL Online Certification courses in concrete technology and Outcome pedagogic principles for effective teaching Conducted by IIT madras , IIT kharagpur

Mr. Chithranjan M

Attended the workshop on "New Model Curriculum for First year BE/B.tech-CBCS Detailed Syllabus(2018-19) as per OBE format inducting CO & Bloom's Taxonomy" organised by VTU, Belagavi.

Attended "Four Day FDP on Software Application Laboratory" held on January 8th to 11th 2018 at Dayananda Sagar Academy of Technology & Management , Bengaluru.

Completed NPTEL Online Certification course in "Introduction to Geographic Information System"Conducted by IIT Roorkee

Attended a two days Workshop on "Revit Architecture" on 9th and 10th of July 2018 held at St Joseph Engineering College Vamanjoor.

Attended a two days Workshop on "Analysis And Design Of Rc & Prestressed Concrete Bridges, Using Midas Civil Software" on 26th and 27th of July 2018 held at PES university Bangalore.

Attended a three days workshop on "FEEL TEACHER" held on 02nd to 04th July 2018, at St Joseph Engineering College, Vamanjoor, Mangalore

Attended a three days Workshop on "Course Content and Management" from 16th to 18th of July of 2018 held at St Joseph Engineering College Vamanjoor.

Completed NPTEL Online Certification course in "Reinforced Concrete Road Bridges" Conducted by IIT Kharagpur

Ms. Vani D

Attended the workshop on "New Model Curriculum for First year BE/B.tech-CBCS Detailed Syllabus(2018-19) as per OBE format inducting CO & Bloom's Taxonomy" organised by VTU, Belagavi on 19th May 2018

Mr. Vijay H

Participated in "Software Application Laboratory" workshop, held on 08th to 11th January 2018 at Dayanand Sagar Academy of Technology and Management, Udayapura, Bangalore.

Participated in "Revit Architecture" workshop, held on 09th to 10th July 2018 at St Joseph Engineering College, Vamanjoor, Mangalore.

Participated in "Information Discovery: Tips, Tools and Technologies" workshop, held on 14th July 2018 at St Joseph Engineering College, Vamanjoor, Mangalore.

Participated in "Aptitude Training Program" workshop, held on the 19th to 21st July 2018 at St Joseph Engineering College, Vamanjoor, Mangalore.

Mr. Rakshith R Suvarna

Attended three days workshop on "Course Content and Management" from 16th to 18th July 2018 held at St. Joseph Engineering College, Mangaluru.

Attended two days MDP on "Contract Management" from 15th to 16th of October 2018 held at St. Joseph Engineering College, Mangaluru.

Mr. AJEETH B

Attended three days workshop on "Course Content and Management" from 16th to 18th July 2018 held at St. Joseph Engineering College, Mangaluru.

Attended two days MDP on "Contract Management" from 15th to 16th of October 2018 held at St. Joseph Engineering College, Mangaluru.

Participated in five days short term course on "Co-product recovery from existing and future biorefineries" from 17th to 21st of December 2018 held at National Institute of Engineering and Technology, Surathkal.

PUBLICATIONS

Proceedings of National / International Journals

Sl. No.	Authors Name	Title	Jounal Details (Date, Conference Name)
1	Yajnheswaran, B. and Subba Rao.	"Effect of Stiffness on Performance of a Diaphragm wall with Irregular Configuration."	Indian journal of geo-marine sciences, Vol. 47(05) May 2018, pp 1058-1064.

Proceedings of National / International Conferences

Sl. No.	Authors Name	Title	Conference Details (Date, Conference Name)
01	.Nalini E.Rebello, R. Shivashankar and Vedala R.Sastry	Surface Displacements due to tunneling in granular soils in presence and absence of geosynthetic layer under footings. Geomechanics and Engineering, Technopress.	Vol. 15, No. 2 (2018), pp. 739-744. DOI: org/10.12989/gae.2018.15.2.739 .
02	R. Shivashankar , Nalini E. Rebello , V.R. Sastry and B.R. Jayalekshmi.	Soil Structure Interaction Studies with Use of Geosynthetics in Soils Beneath Footings. Shehata and Y. Rashed (eds.), Numerical Analysis of Nonlinear Coupled Problems, Sustainable Civil Infrastructures.	Springer International, DOI 10.1007/978-3-319-61905-7. pp. 85-97.
03	Ms Bhavya, Mr Mithun Raj, Mr Ashok M N, Mr Karthik S and Mr Zahid Anjum Lone	A Comparative Study of Conventional Structure With Monolithic Structure	Proceedings of Jnana Sanga-ma 2018, VCET,Puttur
04	Apoorva K V, Abhijna Yashwanth, Gaurav Maheshwari, Varsha Rao & Minol Raylon Dsouza	"Experimental Study for Determination of In-filtration Rate of Soil Using Single and Double Ring Infiltrometer for SJEC Campus, Vamanjoor"	Proceedings of National conference on Convergence of Science, Technology and Management 2018.
05	Yajnheswaran, B., and Subba Rao.	<i>Effect of Construction Phases in the Behavior of Rigid Anchored Diaphragm wall"</i>	National conference on Coastal Harbour and their Ocean Engineering (INCHOE 2018), pp 719-730 CWPRS Pune, India.

Faculty Development Program

The Department of Civil Engineering at SJEC organized a Two-Day Workshop on Revit Architecture on 9th and 10th July, 2018. The Workshop aimed at providing a platform to enhance knowledge on the software of Revit Architecture. It is a robust design and documentation software application created by Autodesk for architects and building professionals. The tools and features that make up Revit are specifically designed to support building information modeling (BIM) which supports modeling and works on the imported AutoCAD file 2D file to 3D model.

The inauguration of workshop was held at Bishop Aloysius Paul Hall on 9th July, 2018 at 9:30 am. The programme was presided over by Rev. Fr Wilfred Prakash D'Souza, Director – SJEC. Dr Rio D'Souza, Principal- SJEC, was the Chief Guest.

Dr Joseph Gonsalvis, Chief of R&D - SJEC was the Guest of Honor. Dr Nalini Rebello, HOD, Department of Civil Engineering and Ms Vani D, Assistant Professor / Convener of the Workshop were present on the dais. Mr Mithun N Devadiga, Junior Design Engineer, GKW CONSULT GmbH was the Resource Person for the workshop.

Dr Nalini Rebello welcomed the gathering. Mr Chitharanjan M, Assistant Professor in the Department of Civil Engineering at SJEC provided an introduction to the workshop. Dr Rio D'Souza emphasized on the software, highlighting the need of keeping updated with the latest softwares. Rev. Fr Wilfred Prakash D'Souza in his presidential address mentioned about the innovations in technology over the years and requested the Civil community to find solutions to prevent failures of the structures.

The inaugural function concluded with a vote of thanks by Convener Ms Vani D. Ms Ivy Savia Dantis, Assistant Professor compered the programme.

After the inaugural function, sessions commenced in the CAD lab with a brief introduction to the software by the Resource Person. There were around 30 participants, including participants from other Colleges, alumni, current VI semester students and Faculty from the Department of Civil Engineering.



PROJECT SHOWCASE 2018

The College-Level Final Year BE Project Exhibition Cum Competition, held on 18 May 2018 to evaluate the final year B.E Projects,. A brief inaugural program conducted in the respective departments, where the judges were introduced to the students by the coordinators and welcomed florally, after which the evaluation A cash prize of Rs 5,000/ for the First prize, Rs 3,000/ for Second Prize and Rs 3,000 for Innovative Project were allotted.

The B.E. Project Exhibition cum Competition for the



final year Civil Engineering Students was organized on 18th May 2018 under the banner of Technova 2018. The event commenced with a brief welcome note in the board room also instructions were given to the judges on judgment criteria. Totally 16 teams participated in the competition. The external judges of the event were Er Suraj Shetty, Sr Manager -

Technical at the Ramco Cements limited, Mangaluru and Dr Akshatha Shetty Associate Professor & Head, A.J. Institute of Engineering and Technology. Also the internal judges of the event were Dr B Radheshyam, Professor and Mr Govinda Krishna M, Assistant Professor, Department Civil Engineering, SJEC, Mangaluru. Alumni, Sanjan Anchan and Anusha were present to encouraged students

The first prize bagged by project titled, "Development of efficient water filtration unit using PVC- PVA composite membrane and natural adsorbents", by Deekshitha K & team. The second prize bagged by Project titled "Experimental investigation on behaviour of wall assembled with interlocking concrete block" by Chaitra S. Shetty & team. Innovative project was bagged by project titled, "Low cost building materials by using composite demolished building waste and waste plastic", by Abhijith Acharya U. P. and team, . The event ended successfully at 4.30p.m.



STUDENTS ACHIEVEMENTS

Presented the paper titled on “Effects of Eggshell Ash on Strength Parameters of CEB” in the International Conference held on 24th & 25th March, 2017 at KLE Technological University, Belgum by Reece Fernandes & Mohammed Tanveer Hussain.

Presented the paper titled on “Analysis of Soil Liquifaction using Numerical Modelling” in the International Conference at Bengaluru by Reece Fernandes, Sanjana & Mohammed Aboobacker Jasim.

Outgoing Batch 2017-2018



..... HAPPY READING