



DEPARTMENT OF CIVIL ENGINEERING

Civil Bytes 2020

VOLUME I & ISSUE 5

10 - 10 - 2020

SPECIAL POINTS OF INTEREST:

- UNIVERSITY RANK & GOLD MEDALS
- IGBC STUDENT CHAPTER
- WICE-2020 (WEBINAR IN CIVIL ENGINEERING)
- ISTE STUDENT CHAPTER.
- PROPOSALS SUBMITTED.

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Director's Message

I am pleased to put down my thoughts for "Civil Bytes 2020", a periodic newsletter brought to you by the Department of Civil Engineering at St Joseph Engineering College.

First and foremost, I would like to put on record that the students and faculty members of the department have been actively engaged throughout the year through the conduction of several events with great gusto. The success of these events is a testimony to the hard work put in by all stakeholders and have helped in providing valuable exposure to students and faculty alike to the recent trends in Civil Engineering.

This newsletter is a proof of dedication and teamwork in the department. I deeply appreciate the efforts put in by all the students, faculty members and editorial committee members in bringing out this newsletter.

I congratulate the Editorial Board of the magazine for its fabulous work in releasing this edition successfully amidst the current pandemic situation. I also express my best wishes to all the readers. Stay safe and healthy!



**Rev. Father Wilfred
Prakash D'Souza**



Assistant Director's Message

I am gratified to know that the department of Civil Engineering is bringing out the fifth issue of their newsletter "CIVIL BYTES" of this academic year (2020).

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.

I extend my heartfelt wishes to all the students and faculty members of Department of Civil Engineering for putting a great effort in achieving academic excellency through dedication and hard work.



**Rev Father Rohith
D'Costa**

Message from Assistant Director



**Rev. Fr Alwyn
Richard D'Souza**

It is my great pleasure to extent heartfelt greetings to the readers of this newsletter 'CIVIL BYTES'. My sincere thanks to all the people who are instrumental in bringing out this newsletter.

'CIVIL BYTES' newsletter of Civil Department manifests departmental activities, it also brings reputation to this Institution. It is a great matter of joy to see all the faculty and students in the department working together. World around us is moving very fast and we need to a tune to the speed, in order to be successful people.

I wish all the success in this New Year. May all your dreams come true. Let us be more committed in delivering Service, with Excellence.

Message from Principal

Civil Engineering at SJEC has exhibited a promising performance in achieving academic excellence by consistently securing university ranks from past few years. The department is committed to promoting curriculum development, as well as the overall wellbeing of its stakeholders.

It is worth noting that during the tough times of the COVID 19 pandemic, nothing was hindering the performance and growth of the Department of Civil Engineering. Their unique program called "WICE-2020" was implemented at the pandemic times. It includes several talks from industry and academic experts to disseminate knowledge through distance education.

Apart from that, the department had also organised an online project exhibition "CEPEX 2K20" for the final year students to exhibit their creativity and talent towards project work.

In the academic year 2019-2020, students and faculty have participated in several extracurricular activities held both in and around the district. Newsletter, Civil Bytes is one such platform to showcase all happenings in the department, and I congratulate all staff and students for their contribution to the growth of the department as reflected in this Newsletter.



Dr Rio D'Souza

**"Scientists
investigate that
which already
is. Engineers
creates that
which has
never been"**
-Albert Einstein

Message from HOD

"Scientists investigate that which already is; Engineers create that which has never been"- Albert Einstein.

Department of Civil Engineering delighted to present 4th issue of E-magazine "Civil Bytes 2020". As SJEC completes 20 years of providing quality Technical education we are proud to have the release of our E-magazine. In our journey towards Service and Excellence we have achieved several milestones and we humbly acknowledge that we will continue striving hard towards quality education and overall personality enrichment of our students. Let us also take utmost care in servicing the society by extending the expertise and facilities in our institute and specially in our department. It leads us to be a part of nation building. The constant Interaction with Industry through Technical talks, Industrial visits and Alumni interaction are the pursuit of the department to enrich our students to real time field challenges. This newsletter highlights the various activities conducted in the department.

I take this opportunity to congratulate the faculty members and the students of civil engineering department for their continues support in bringing out the Department Newsletter "Civil Bytes".

I look forward to improving research, curriculum delivery, testing and consultancy services and outreach programs over the next several years. I wish the Department every success in its future endeavors!



Dr Yajnheswaran B

Editorial Desk



Mr. Prashant Kurdekar

It gives me a great pleasure and pride to be the editor in chief of the department Newsletter "Civil Bytes 2020". This helps to recall all the memories left behind.

I would like to put on record that 2020 was the most challenging year specially for the academic professionals to bear the heat of the pandemic "Novel Corona Virus 2019" and cope up with the technology to transform knowledge to the young budding minds of the nation. This situation has taught thousands lesson and now it's the time to Reform, Perform and Transform

University Rank and Gold Medal



Mr Mahima S Rao student of 2019 class secured 1st Rank in the VTU and a record tally of 13 Gold medals during

19th VTU Annual Convocation held on - February 2020

Ms Mahima S Rao

"The difference between the impossible and the possible lies in a person's determination"

List of Gold Medals

- 1. Sri Nijagunappa Gurulingappa Hakkapakki Gold Medal
- 2. N. Krishnamurthy Memorial Gold Medal
- 3. Sri M Visvesvaraya Co-operative Gold Medal
- 4. Jain University Gold Medal
- 5. Er. H. S. Siddalingaiah Civil Engineer Memorial Award
- 6. Dr M C Srinivas Murthy Memorial Cash Prize
- 7. Jyothi Gold Medal
- 8. National Institute of Engineering Silver Jubilee Gold Medal.
- 9. Murty's Medal of Excellence
- 10. R N Shetty Gold Medal
- 11. VTU Gold Medal
- 12. Sri S G Balekundri Gold Medal
- 13. Dr (Smt.) Malathi Kesaree Gold Medal

Testimonial from Alumni

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



Jahanvi Mulki

IGBC STUDENT CHAPTER LAUNCH



Professional Associations often house the latest information on re-

search, trends, best practices and current events happening within a particular industry.

To provide a platform for students to exchange ideas and to strengthen the clean and green initiatives. SJEC-IGBC Student Chapter was virtually inaugurated on 24th September 2020.

Mr D B Mehta, Chairman IGBC Mangaluru Chapter and Ms Rekha Mavulati, Counsellor IGBC were invited as the chief guest for the virtual launch.

Mr Prashant Kurdekar, Assistant Prof. was the faculty incharge.



Webinar in Civil Engineering-WICE 2020

THE COVID 19 pandemic and global lockdown represent an unprecedented challenge for skills development systems. Lockdown is having an immediate impact on the education system, but it has provided an opportunity to the educational institutions to use technology to disseminate knowledge through distance education.

In the short term, the challenge has been to change the technical and vocational education and training provisions rapidly from real live to digital or in some cases blended to fill in the gaps and provide various platforms for knowledge delivery.

Webinar is one such tool which is proved to be very effective in upgrading the skill and knowledge apart from curriculum and we very happy to inform that department of Civil Engineering had conducted series of webinar to foster knowledge and ignite the young minds.

ISTE STUDENT CHAPTER

Department of Civil Engineering is very active in conducting various technical events like Internal Hackathon for Smart India Hackathon, Industrial visits, Technical talks, Motivational talks, Seminars, Hands on workshop, Faculty Development Programmes, Technical quiz, career guidance, mini projects under the banner of Indian Society for Technical Education (ISTE).

A National Level Virtual Hackathon "GreenTech Hackathon 2020" is the prime event hosted by the department in association with ISTE during the academic year 2020-21.



DEPARTMENT VISION

TO IMPART TECHNICAL EDUCATION AND NURTURE
RESEARCH IN CIVIL ENGINEERING TO MEET THE

DEPARTMENT MISSION

1. Deliver curricula 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.

ABOUT THE DEPARTMENT

The department was established during the year 2011-2012. It offers a Bachelor of Technology degree in Civil Engineering stream with an annual intake of 60 students. The vision of the department is to achieve national and international recognition in Teaching, Research and Development, and Consultancy in Civil Engineering and to fulfil our obligations to the community to provide graduates to serve the Civil Engineering Industry in India. The Department boasts a highly qualified team of faculty members who have been academicians and industry professionals for many years. State-of-the-art laboratories and computing facilities are the mainstays of the department. . The department hosts an Indian Green Building Council (IGBC) and under which forum, Expert Lectures, Students Seminars, Field Visits, Students symposia and Technical competitions are organized by the students under the guidance of the Faculty. The Department Library facilitates quick access of Books and Journals by Faculty & Students.

ACTIVITY DETAILS



ACTIVITY NAME: Faculty Development Program (FDP)

TOPIC: FORENSIC IN CIVIL ENGINEERING

DATE: 22nd to 24th July 2019

RESOURCE PERSON: List attached

TARGET AUDIENCE: Faculty members from Dakshina Kannada region

ACTIVITY NAME: Technical Talk

TOPIC: ENGINEERING INNOVATIONS

DATE: 07 August 2019

RESOURCE PERSON: Dr Narayan V Nayak

TARGET AUDIENCE: Third year CE students



ACTIVITY NAME: Technical talk

TOPIC: Innovative World of Civil Engineering & Construction Safety

DATE: 26 September 2019

RESOURCE PERSON: Dr K S Babunaryan

VENUE: Prerana Hall



ACTIVITY NAME: Technical talk

TOPIC: Rainwater Harvesting & Construction Equipment

DATE: 30 September 2019

RESOURCE PERSON: Er Bharath & Er Ujwal D'Souza

VENUE: Prerana Hall



SJEC Shines at IPLEX 2019

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

Mr. Prashant Kurdekar, Assistant Professor represented Civil Engineering Department in IPLEX 2019.



ACTIVITY NAME: Technical talk

TOPIC: Avenues For Civil Engineers

DATE: 09 October 2019

RESOURCE PERSON: Mr Maninarayan T

VENUE: Bishop Aloysius Paul Hall



ACTIVITY NAME: 5-Day FDP

TOPIC: Teaching & Learning

DATE: 13 to 18 January 2020

RESOURCE PERSON: Dr Claire Komives,
Professor, Chemical & Materials Engineering,
San Jose State University, California

Educational
Social
Responsibility
ESR—2020



ACTIVITY NAME: Outreach Program
TOPIC: Plastic Waste Management
DATE: February 2020
VENUE: St Raymond Eng. Med. Higher Primary School, Vamanjoor, Mangaluru

INDUSTRIAL VISIT



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: 23 September 2019

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

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



EVENT: CONSTRUCTION SITE VISIT FOR V SEMESTER STUDENTS

Date: 24 September 2019

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

Objectives: The industrial visit to construction site provides practical knowledge to the students as to how theoretical knowledge is put into action.

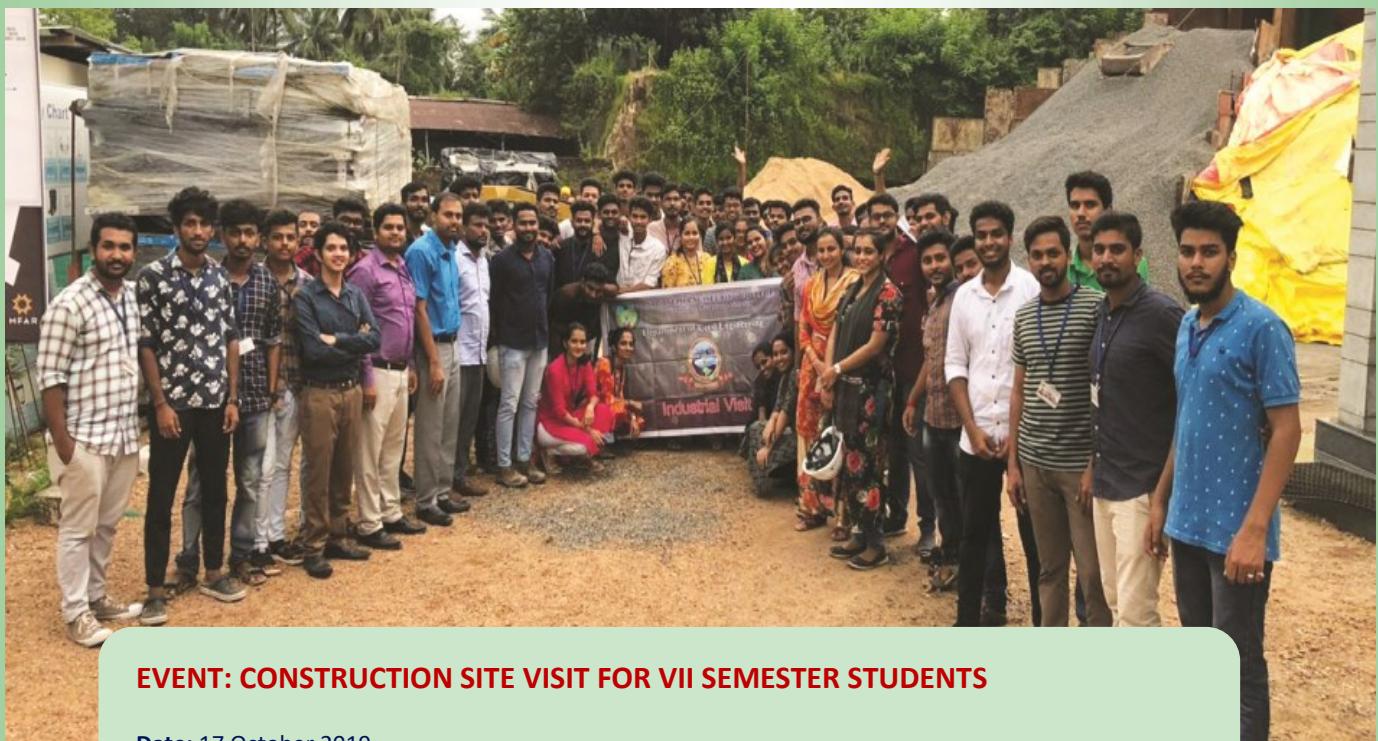


EVENT: CONSTRUCTION SITE VISIT FOR III SEMESTER STUDENTS

Date: 25 April 2019

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

Objectives: The industrial visit was aimed at enhancing the knowledge in RCC Construction. Skyline Signature is the proposed tallest structure in South India which is having about 53 floors.



EVENT: CONSTRUCTION SITE VISIT FOR VII SEMESTER STUDENTS

Date: 17 October 2019

Faculty In charge: Mr Prashant Kurdekar, Mr Ajeeth B and Ms. Apoorva K V

Objectives: To enhance the practical knowledge of students wherein students could experience the manufacturing process of RCC Hume poles and RMC.



EVENT: VISIT TO SEWAGE TREATMENT PLANT (STP) AT KAVOOR

Date: 18 November 2019

Faculty In charge: Mr Prashant Kurdekar and Mr Ajeeth B

Objectives: To give students exposure on the onsite water and wastewater treatment techniques.



EVENT: SITE VISIT TO PROPOSED PSC BRIDGE AT GURUPURA FOR FINAL YEAR STUDENTS

Date: 03 March 2020

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

Objective: To enhance the knowledge and visualization process involved in pre stressing of concrete

Memorandum of Understanding (MoU's)



Online Final Year Project Exhibition



ST JOSEPH
ENGINEERING COLLEGE
MANGALURU



DEPARTMENT OF CIVIL ENGINEERING
AND
NIRMAN
Civil Engineering Students Association
ORGANIZING

CEPEX - 2k20

(Civil Engineering Project Exhibition)

on 16th July 2020 from 10:00 am.

The competition will give an opportunity for final year students to showcase their creativity, hardwork and talent towards project work in the form of video document.

First Prize: ₹2000/-

Second Prize: ₹1500/-

(Will be decided by judges)

Most Creative &

Innovative Project: ₹1500/-

(Will be selected based on Audience poll)

Powered by



Mr Chitharanjan M. & Ms Bhavya
Coordinators

FACULTY ACHIEVEMENT

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 ACIDITHIOBACILLUS 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.



EXTERNAL RESEARCH GRANTS RECEIVED



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 Membrane Filter for the Pachanady Dumpyard Project, Mangaluru" was funded by Karnataka State Council for Science and Technology (KSCST)

Department of Civil Engineering and SMaC

Presents WEBINAR on

Leveraging Digital Marketing for Brand Building

10 July 2020, 3.30pm to 5.00pm



Mr AJEETH B
Assistant Professor
Civil Engineering-SJEC

ST JOSEPH ENGINEERING COLLEGE MANGALURU



In Conclusion 4

The Hero

Approach 2

Keep in mind 1

Register now: bit.ly/SJEC-ISW-2

ACTIVITY NAME: WEBINAR 1

TOPIC: Brand Building

DATE: July 2020

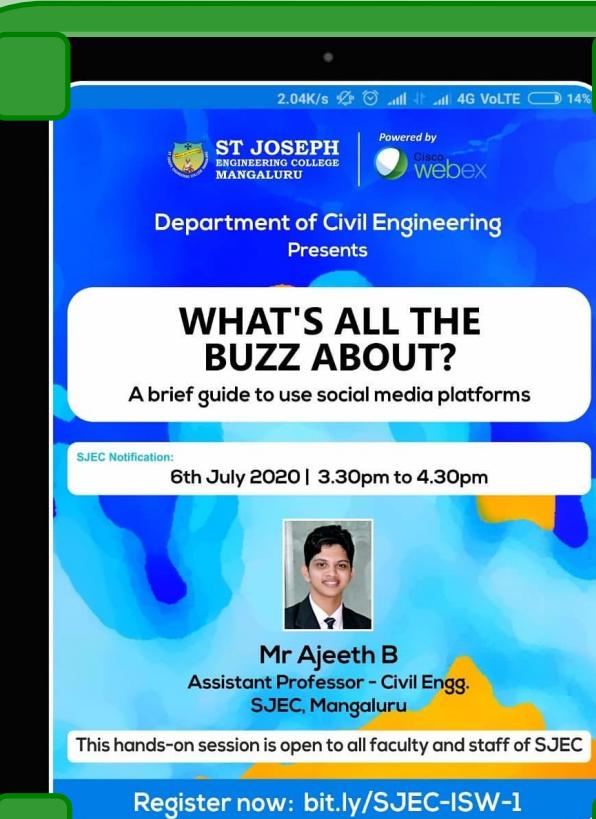
RESOURCE PERSON: Mr Ajeeth B

ACTIVITY NAME: WEBINAR 2

TOPIC: Social Media Platforms

DATE: July 2020

RESOURCE PERSON: Mr Ajeeth B



WHAT'S ALL THE BUZZ ABOUT?
A brief guide to use social media platforms

SJEC Notification:
6th July 2020 | 3.30pm to 4.30pm



Mr Ajeeth B
Assistant Professor - Civil Engg.
SJEC, Mangaluru

This hands-on session is open to all faculty and staff of SJEC

Register now: bit.ly/SJEC-ISW-1

STUDENT ACHIEVEMENT



- a) 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.
- b) Ms Jahnavi U Mulki 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.

14

**NUMBER OF ONLINE COURSES COMPLETED
BY FACULTY**

76

**NUMBER OF ONLINE COURSES COMPLETED
BY STUDENTS**

31

**NUMBER OF FDPS/STTPS/WORKSHOP
ATTENDED BY FACULTY**

5

**NUMBER OF INTERNATIONAL
JOURNALS**



NIRMAN

STUDENT ASSOCIATION

DEPARTMENT OF CIVIL ENGINEERING

The Department has got a student association in the name “NIRMAN” to provide a solid platform for the students to organize a variety of technical and non-technical events which aims at grooming the students academically as well as professional. NIRMAN is very much committed to the overall development of CIVIL students by organizing various events such as Technical Quiz, Seminar, Workshop and Expert lecture and Industrial Visits. In addition through NIRMAN we celebrate “Engineers Day”. To welcome new students to our department we organize “Freshers Day” as well as to bid a farewell to final year BE students we organize “Farewell Function”.



ST JOSEPH ENGINEERING COLLEGE

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

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