

Director Message

I wish this year enriches you with God's bountiful blessings. It is heartening to note that the Department of Civil Engineering is coming out with yet another issue of Civil Bytes.

Coming out with a magazine like this is truly an endeavour of commitment and patience. Bringing all the event reports and various contributions together into one consistent collection is a task requiring plenty of dedication. But the team from Civil Engineering has done it yet again! As they share the department centered news with you, I immensely thank the editor, the HOD and the faculty for their generous contribution to go with the continued support in updating you with the chain of events that were coordinated in this department.



Rev. Father Wilfred
Prakash D'Souza

Assistant Director Message

It gives me immense pleasure and a great sense of pride to write down a small message for the magazine "Civil Bytes 2021" an annual e-newsletter of Department of Civil Engineering, SJEC. "Civil Bytes" offer a glimpse of student's activities and achievements, industry interaction for transforming practical experience, faculty development programs and guest lectures which help in the overall development of the department and stakeholders.

I congratulate the entire "Civil Bytes" team for publishing the sixth edition and extend my congratulations to all the contributors. I would also take this opportunity to thank all the students, faculty, and staff of Civil Engineering for their effort and hard work in the progress of the department.



Rev. Father
Alwyn Richard

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Special points of interest:

- UNIVERSITY RANK
- SPECIAL LECTURE SERIES
- TECHNICAL APPTITUDE
- CENTRE FOR CONSULTANCY SERVICES
- RESEARCH PROPOSAL

Principal Message

Civil Engineering at SJEC is a vibrant department with experienced faculty and staff member exhibiting a promising performance in achieving academic excellence by consistently securing university ranks from past few years. The department has shown a promising growth in research and committed to promote curriculum development.

Civil Engineering department has always tried to employ latest pedagogical advancements and utilize modern tools and technologies to deliver the course that empower our students so that they are prepared to face the diverse challenges of the future. Their unique program called “GREENTECH HACKATHON 2020” & “RECON-2020” were very much successful in attracting participants from all around the country. RECON 2020 included several talks from industry and academic experts to disseminate knowledge through distance education.

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

HOD Message

“It is better to work out than rust out.”- Sir Mokshagundam Visvesvaraya

Department of civil engineering delighted to present 5th issue of E-magazine “Civil Bytes 2021. As SJEC completes 21 years of providing quality Technical education we are proud to have the release of our E-magazine. Our journey towards Service and Excellence has been filled with several milestones, and we acknowledge that we will continue to strive hard for quality education and overall personality development. By enhancing the expertise and facilities in our institute and particularly in our department, let us also take the greatest care in serving the society. In this way, we contribute to nation-building. We are pleased to report that we did remarkable interaction with industry and academia through technical talks, industrial visits, and alumni interaction as part of our pursuit to enhance our students' experience of real-world 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 Yajneswaran B

Editorial Message

St Joseph Engineering College is well known for its academic excellence and dedicated approach towards dissemination of technical knowledge. The college appreciates the role of research in education and is committed to developing an inclination towards research in both student and faculty.

The college, today, is an educational edifice of excellence with its most talented and experienced staff and state of the art infrastructure, offering a variety of courses in engineering both at UG and PG Level. It is a matter pride that many of our former students have secured good jobs both in India and abroad.

The magazine committee is glad to note that many of the faculty and the students have evinced interest in the magazine by contributing creatively and actively.



Mr. Prashant Kurdekar

Department Vision

TO IMPART TECHNICAL EDUCATION AND NURTURE RESEARCH IN
CIVIL ENGINEERING TO MEET THE NEEDS OF THE SOCIETY.

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.

Programme Specific Objectives (PSOs)

Graduates in Civil Engineering will be able to

1. Explore domain knowledge in order to solve real-time field challenges, and to pursue research in novel areas of Civil Engineering.
2. Qualify in competitive exams and succeed in obtaining opportunities in the public and private sectors.

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.

Best Practices in the Department

1. Knowledge Enhancement through Technical Talks, Industrial Visits
2. Career Guidance Through Motivational Talks by Alumni
3. Innovative Teaching Learning Practices
4. Department E-Newsletter
5. Conduction of various Technical Activities under Department Association "NIRMAN"
6. Initiating Research through Mini Projects.
7. Motivating Students to Present/Publish Research Papers in International/ National Conference
8. Continuous Motivation to Students by Rewarding the Top Scorer of University Examination.



University Rank



Ms. Pooja L

Secured 5th Rank in Civil Engineering at VTU level. She was awarded during VTU 20th Annual Convocation on 3 April 2021 at VTU Belgavi.

Ms. Janavi Mulki

Secured 10th Rank in Civil Engineering at VTU level. She was awarded during VTU 20th Annual Convocation on 3 April 2021 at VTU.

Testimonial from Alumni

For me, SJEC has always been that soil which nurtures student's growth right from the first year, until they become an independent skilful engineer working auspiciously towards their goal. Be it learning the concepts, developing skills, shaping student's career and personality, SJEC has always proven to be a backbone to it.

Mr Sheik Mohammed Zunain

Final Year
Department of Civil Engineering

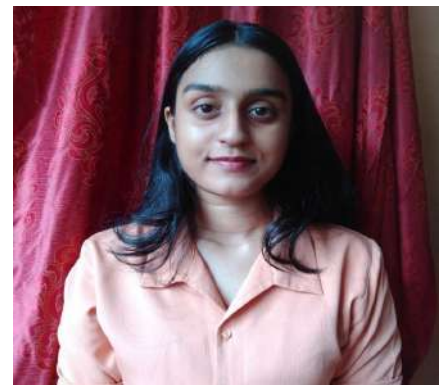


Testimonial from Alumni

St Joseph Engineering College has been the best part of my Educational journey so far. It has helped me improve both in terms of academics and demeanour. SJEC leads their students through a professional evolution which enhances their confidence and skill - Ideal place to learn and grow.

Ms Jessica Goveas

Final Year
Department of Civil Engineering



Activity Details

WICE 2020
WEBINARS IN CIVIL ENGINEERING

ST. JOSEPH ENGINEERING COLLEGE, MANGALURU

ISTE

DEPARTMENT OF CIVIL ENGINEERING
ST JOSEPH ENGINEERING COLLEGE, MANGALURU

in association with

ISTE-SJEC STUDENT CHAPTER

Organizes

WEBINAR
on

**SOIL- STRUCTURE INTERACTION AND DEEP FOUNDATIONS:
THEORY AND APPLICATIONS**

07 July 2020, 10.00am to 11.00am

POWERED BY
Cisco
webex

For Students, Faculty & Research Scholars

REGISTER NOW:
bit.ly/SJEC-WICE-2020-Webinar-3

Dr G R Dodagoudar
Professor
Department of Civil Engineering
IIT Madras, Chennai

Webinar on

Soil Structure Interaction & Deep Foundation conducted on 07 July 2020 for the Faculty and Staff of SJEC-Mangaluru with Dr. G. R. Dodagoudar, Professor Department of Civil Engineering, IIT -Madras as the resource person

Online Quiz on

Concrete Technology was conducted on 08 July 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

Webinar on

Leveraging Digital Marketing for Brand Building conducted on 10 July 2020 for the Faculty and Staff of SJEC-Mangaluru with Mr Ajeeth B, Asst. Professor Department of Civil Engineering, SJEC-Mangaluru as the resource person

Activity Details

Online Quiz on

Earthquake Resistant Design of Structures was conducted on 15 July 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.



WICE 2020
WEBINARS IN CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING
ST JOSEPH ENGINEERING COLLEGE, MANGALURU

in association with

MHRD- INSTITUTION'S INNOVATION COUNCIL

Organizes

WEBINAR
on

WRITING A RESEARCH PROPOSAL

17 July 2020, 10.00am to 11.00am

POWERED BY


OPEN TO ALL

FREE REGISTER NOW @
bit.ly/SJEC-WICE-2020-Webinar-4



Dr Rajlaxmi Chouhan
Assistant Professor
Department of Electrical Engineering
Indian Institute of Technology (IIT) Jodhpur
Recipient of "Early Career Research Award" by SERB, DST, GOI.

Webinar on

Writing a Research Proposal conducted on 17 July 2020 for the Faculty, Research Scholar and Students of SJEC-Mangaluru with Dr. Rajalaxmi Chouhan, Assistant Professor Department of Civil Engineering, IIT –Jodhpur as the resource person

Activity Details

Online Quiz on

Environmental Engineering was conducted on 20 July 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

Online Quiz on

Reinforced Concrete Structures was conducted on 30 July 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

WICE 2020
WEBINARS IN CIVIL ENGINEERING

 **ST JOSEPH ENGINEERING COLLEGE**
Mangaluru

DEPARTMENT OF CIVIL ENGINEERING
in association with
DEPARTMENT OF TRAINING AND PLACEMENT
Organizes
WEBINAR
on
TURNING ENGINEERS INTO CIVIL SERVANTS
31st July 2020, 10.00am to 12.00pm

POWERED BY


FREE AND OPEN TO ALL

REGISTER NOW @
bit.ly/SJEC-WICE-2020-Webinar-5


Mr T P Sreenivasan
Former Ambassador of India
Retd. IFS Officer
Permanent Representative of India to UN, Vienna
Governor for India of the International Atomic Energy Agency, Vienna

Webinar on

Turning Engineers into Civil Servants conducted on 31 July 2020 for the Faculty and Staff of SJEC-Mangaluru with Mr T P Srinivasan, Former Ambassador of India. Rtd. IFS Officer, Permanent Representative of India to UN, Vienna as the resource person

Activity Details



Webinar on

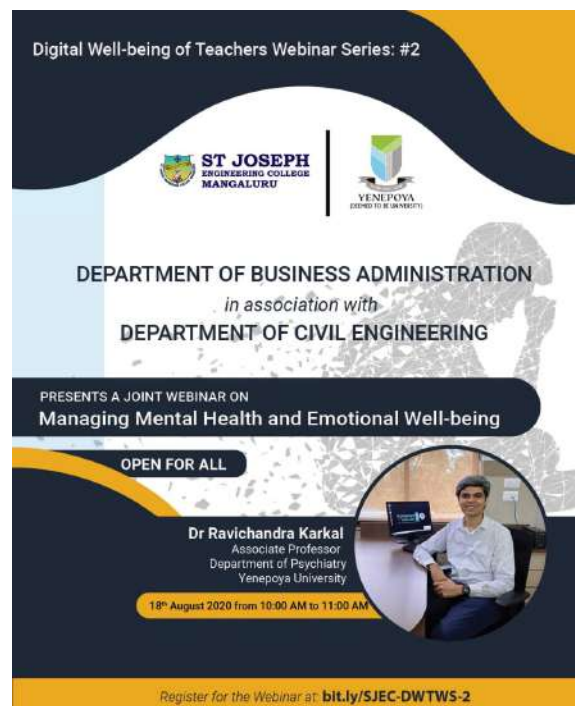
Smart Technologies for Smart Construction conducted on 14 August 2020 for the Faculty, Research Scholar and Students of SJEC-Mangaluru with ConCroc Nagesh Puttaswamy, Regional Head (Tech), Karnataka South, Ultra Tech Cement Ltd, Bengaluru as the resource person

Online Quiz on

Fluid Mechanics and Hydraulics was conducted on 08 August 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

Webinar on

Managing Mental Health and Emotional Well Being conducted on 18 August 2020 for the Faculty and Staff of SJEC-Mangaluru with Dr Ravichandra Karkal, Associate Professor, Department of Psychiatry, Yenepoya University as the resource person



Online Quiz on

Waste Management was conducted on 19 August 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

WICE 2020
WEBINARS IN CIVIL ENGINEERING




ST JOSEPH ENGINEERING COLLEGE
Mangaluru

DEPARTMENT OF CIVIL ENGINEERING

in association with
INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)

Organizes
WEBINAR
on



INSIGHTS INTO CIVIL ENGINEERING

For Engineering Aspirants and PUC Students

POWERED BY


28 August 2020
10.30am to 11.30am



Mr Prashant Kurdekar
Asst. Professor - SJEC

HIGHLIGHTS

- ▶ Core subjects and Laboratories
- ▶ Higher Studies & Research
- ▶ Job opportunities in Govt and Private Sector.
- ▶ Role of Civil Engineer in development of Nation.

FREE REGISTRATION @ bit.ly/SJEC-WICE-2020-Webinar-7

Webinar on

Insights into Civil Engineering conducted on 28 August 2020 for Engineering Aspirants and PUC Students with Mr. Prashant Kurdekar, Assistant Professor, Department of Civil Engineering, SJEC as the resource person

RESEARCH CONCLAVE 2020

A Research Conclave 2020 was conducted from 15 to 17 September 2020 for the Research Supervisor, Faculty members, PG Students of Civil Engineering.



ST JOSEPH
ENGINEERING COLLEGE
MANGALURU

DEPARTMENT OF CIVIL ENGINEERING
Organizes

RESEARCH CONCLAVE-2020

15th - 17th September 2020



RE-CON CILLATORS

 Prof K S Babu Narayan <small>Professor, Dept. of Civil Engg. NITK, Surathkal</small>	 Dr Dhruva Narayana Katapadi <small>Research Head, Infratech Co. Ltd. Visiting Professor, FUKUOKA, University, Japan</small>	 Prof Babu J Alpat <small>Professor, Dept. of Civil Engg. IIT Delhi</small>	 Dr Shreenivasa M Y <small>Professor, Dept. of studies in Microbiology University of Mysore</small>
 Dr G R Dodagoudar <small>Professor, Dept. of Civil Engg. IIT Madras</small>	 Dr B M Sunil <small>Associate Professor Dept. of Civil Engg., NITK, Surthkal</small>	 Dr Suresha S N <small>Associate Professor Dept. of Civil Engg., NITK, Surathkal</small>	 Er Bhsavaraj M B <small>Chief Engg. Division Authority - MMRDA</small>
 Dr Gangadar Mahesh <small>Associate Professor Dept. of Civil Engg., NITK, Surathkal</small>	 Er Harish H L <small>Lead Engineer, BETA CAE Systems USA</small>	 Prof. Bhaskar Rao <small>Freelance Consultant</small>	 Er Joseph Silvera <small>Project Manager, Darshaw Consultancy Ex- Chief Engineer, MORMUGAO Port Trust</small>

E-Certificate will be provided

REGISTRATION LINK:
bit.ly/SJEC-CRC-2020

For Research Supervisors, Research Scholars, Faculty Members and PG Students

ST JOSEPH
ENGINEERING COLLEGE
MANGALURU

**Department of
Electrical & Electronics Engineering
and Civil Engineering**

Organizes

A **WEBINAR** on
ENGINEER AND SOCIETY

18 September 2020, 9.15 am
OPEN TO ALL

Registration Link:
bit.ly/SJEC-WES-2020

Resource Person
Mr AKSHAY S K
Senior Engineer, Master Plannery, Puttur

Webinar on

Engineer and Society conducted on 18 September 2020 for the Faculty, Staff and Students of SJEC-Mangaluru with Mr. Akshay S K, Senior Engineer, Master Plannery, Puttur as the resource person

Webinar on

Career Opportunities Available after Engineering conducted on 23 September 2020 for 5th and 7th Semester Students of all departments SJEC-Mangaluru with Mr Ganesh Hebbar, Centre Director, TIME Mangalore & Udupi as the resource person

ST JOSEPH
ENGINEERING COLLEGE
MANGALURU

IGBC
Indian Green Building Council

CII
Confederation of Indian Industry
125 Years - Since 1890

On the occasion of
World Green Building Week 2020

VIRTUAL launch of
SJEC -IGBC
(Indian Green Building Council)
Student Chapter

on 24 September 2020, 10.45 am - 11.45 am

All the Staff and Students of SJEC are invited

Special Address

Mr D B Mehta
Chairman,
IGBC Mangaluru Chapter

Presenter

Ms Rekha Mavulati
Counsellor, IGBC
Presentation Topic:
**Green Building Concepts
and Green Education**

REGISTRATION LINK: bit.ly/SJEC-IGBC-2020

Faculty Coordinator
Mr Prashant Kurdekar
+91 95911 07418 | prashantk@sjec.ac.in

Technical Talk on

Green Building Concepts and Green Education conducted on 24 September 2020 for Faculty, Staff and Students of SJEC-Mangaluru with Ms Rekha Mavulati, Counsellor IGBC as the resource person

Online Quiz on

Building Material and Construction was conducted on 09 October 2020 for the Faculty, Research Scholars, Industry Experts and Students Civil Engineering.

Online Workshop on

Project Management conducted on 11 December 2020 for Industry Delegates, and Academician with Mr. Jayanth Sathe, Retired Project and Construction Manager at Procter & Hamble Co. as the resource person



St Joseph Engineering College
Vamanjoor, Mangaluru

Online Workshop on
PROJECT MANAGEMENT

11 December 2020
3.00pm to 5.30pm

Organized by
Departments of
Business Administration & Civil Engineering

ABOUT THE RESOURCE PERSON

Mr Jayant D Sathe
Retired Project & Construction Manager
at the Procter & Hamble Co.

Jayant retired from P&G after 32 years of Project Management, Construction Management and Plant Engineering assignments. In his career at P&G in 32 years, Jayant has managed projects worth over 2 Billion USD. He was the founding president of the South Georgia Construction and Maintenance Council, a local Construction User group in South Georgia.

In addition to the U.S., Jayant has managed Projects and construction for P&G in Mexico, Canada and India.

Jayant has delivered training at P&G, social organizations, IIT B, etc. for:

- Leadership Talent Development in the areas of Leadership versus Management, Personal & Organizational Vision Development, Goal Setting, Organization Design, Organizational Culture Development, Personal & Organizational Values and effective Writing.
- Technical skills development in the areas of Construction Management and Project Management.

Jayant has a B. Tech. In Civil Engineering from the Indian Institute of Technology, Bombay, MS in Building Design from the University of Connecticut and a MS in Construction Management from the University of Illinois.

He is a Registered Professional Engineer in the States of Illinois, Ohio and New York in the United States. Member of the CIAF (Global Industrial Advisory Forum) as part of IUCEE since 2016.

CONTENT AND PROCESS OF WORKSHOP:

At the end of the workshop the attendees will know what is Project Management and why we need it. We will use Case Study approach to understand basic of Leader versus Manager, Impact on the organization, Conflict Management, Risk Management and Timely Decision Making. We will review what a good Project Charter looks like and why. We will look at a way to write an effective Business Memo in one page.

The attendee will receive Case Studies to read/analyze & return analysis to the instructor before the workshop. Attendees will get a general/common feedback at the workshop and individual feedback from the instructor after the workshop in email.

I will request from each attendee a copy of their Project Charter and a copy of one of their Business Memo where they either requested authorization for an activity, authorization of funds or made a recommendation to start a new program, etc. Again, attendees will get a general/common feedback at the workshop and individual feedback from the instructor after the workshop in email.

FLOW OF THE WORKSHOP:

- Ice Breaker
- What is Project Management and why we need it
- Case Study Analysis:
 - Leader vs Manager: Impact on the Organization
 - Conflict Management
 - Risk Management
 - Timely Decision Making
- Project Chartering
- Business Writing
- Closing remarks

2Days Hands on Workshop on

REVIT-ARCHITECTURE Software conducted from 8th January to 9th January 2021 for Final Semester Students of Civil departments SJEC-Mangaluru with Mr Jackson J, Proprietor, CADD TechLabs Training Services as the resource person



Demo Session on

ETABS Software conducted on 24 and 25 March 2021 for the Faculty of Civil Engineering with Mr. Vivek, Trainer CSI Engineering Software Pvt Ltd, as the resource person



Award Ceremony of

GreenTech Hackathon 2020—A National Level Virtual Hackathon conducted on 21 March 2021 with Shri Shashikumar N, Commissioner of Police Mangalore City Police, Mangaluru as the Chief Guest





Technical Talk on

Applications of Microbes in Various Branch of Civil Engineering conducted on 05 April 2021 for the Students of 3rd and 4th Year Civil Engineering with Prof. Sreenivasa M Y, Professor, Department of Microbiology, University of Mysuru, Mysuru as the resource person

Technical Talk on

Intimation to Overcome Limitations conducted on 05 April 2021 for the Students of 3rd and 4th Year Civil Engineering with Prof. Babunaryan K S, Professor, Department of Civil Engineering, NITK Surathkal as the resource person



Webinar on

Introduction to CAPS & VBA conducted on 21 May 2021 for II, III, IV year Students of SJEC-Mangaluru with Mr Chithranjan M, Assistant Professor, Department of Civil Engineering and Mr. Sheik Mohammed Zunain, Final Year Student, CE-SJEC as the resource person



NIRMAN

STUDENT ASSOCIATION

DEPARTMENT OF CIVIL ENGINEERING



Service & Excellence

**Dynamic
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 (AN AUTONOMOUS INSTITUTION)

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

Vamajoor, Mangaluru—575 028,

Karnataka, India

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