





JUNE 2022 | ACADEMIC YEAR 2021-2022

TIMOSHENKO

DEPARTMENT OF CIVIL ENGINEERING SCHOOL OF ENGINEERING AND TECHNOLOGY



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EDITOR'S NOTE

Dr. Jacob Alex Kollerathu

The academic year 2021-22 was indeed an exception. We started the academic year amid a pandemic and were forced to go online. We moved into a hybrid phase, went offline in early January and almost immediately were forced to go entirely online. But as they say, you can only delay good things from happening and not prevent them. The resumption of offline classes and return to normalcy was perhaps the best thing to happen in the last academic year.

Amidst all the uncertainty that the pandemic bestowed, the university and the department left no stones unturned in assuring that the students did not miss out on any of their academic necessities. It was fitting that the department was recognised and accredited by the National Board of Accreditation for three years. It was a testament to the excellent work the department had carried out for its students' benefit and the larger good.

In the last academic year, the department successfully conducted no less than 65 activities, including project exhibitions, career guidance seminars, technical seminars, an international conference, an extensive survey camp and faculty development programmes.

Another significant achievement was the successful completion of the industry internship of many graduating students. Even though this had humble beginnings, the industry internship is an initiative that has improved over the last few years. Despite all the stellar achievements of the past year, the department remains humbled as we know that these are nothing but small milestones in a long journey.

Here is wishing all of you the best!!!!!!

What's in the Newsletter:

Vision and Mission Institutional Departmental **PEOs and POs** Programs Orientation **FDP** Inauguration Seminar/Webinar **Technical Talk Events Extensive Survey** Industrial Visit Int. Conference Farewell Achievements

VISION AND MISSION

VISION

CHRIST (Deemed to be University), a premier educational institution, is an academic fraternity of individuals dedicated to the motto of **'EXCELLENCE AND SERVICE'**.

We strive to reach out to the star of perfection through an earnest academic pursuit for 'excellence,' and our efforts blossom into 'service' through our creative and empathetic involvement in the society to transform it.

Education prepares one to face the challenges of life by bringing out the best in him/her. If this is well accepted, education should be relevant to the needs of the time and address the problems of the day. Being inspired by Blessed Kuriakose Elias Chavara, the founder of Carmelites of Mary Immaculate and the pioneer in innovative education, CHRIST (Deemed to be University) was proactive to define and redefine its mission and strategies by reading the signs of the time.

MISSION

"CHRIST (Deemed to be University) is a nurturing ground for an individual's holistic development to make an effective contribution to the society in a dynamic environment."

CORE VALUES

THE VALUES WHICH GUIDE US AT CHRIST (DEEMED TO BE UNIVERSITY):

- Faith in God
- Moral Uprightness
- Love of Fellow Beings
- Social Responsibility
- Pursuit of Excellence



DEPATMENT OF CIVIL ENGINEERING

VISION

Serve and excel in the constantly changing societal needs with ethics and integrity

MISSION

M1: To create awareness of societal needs and ethics in the dynamic environment.

M2: To impart contemporary knowledge to achieve excellence in academics and profession through the experience of lifelong learning.

M3: To carry out research in collaboration with research organizations and industry to add value to the profession and society at large.

M4: Instil leadership qualities, communication skills and team spirit to meet challenges in the global environment.

DEPARTMENT OVERVIEW

As one of the oldest branches of engineering, Civil engineering involves designing and constructing public and private projects to improve physical infrastructure and the environment. By integrating scientific principles with engineering experience, this course facilitates the planning, design, and construction of railways, airports, dams, environmental pollution control systems, water purification and distribution systems, and urban transportation systems that enhance the quality of life.



PAGE 03

ABOUT

Civil Engineering B.Tech course is designed to meet the needs of modern Civil Engg fields like Construction Technology, Geo-Technical Engg, Irrigation Engg, Transportation Engg, Structural Engg, Environmental Engg, etc. By the time students complete this course, they will be fully trained to analyse and design the Complex structural systems

DEPATMENT OF CIVIL ENGINEERING

PROGRAMME EDUCATIONAL OBJECTIVE

PEO1: Fundamental Knowledge

A competent professional being aware of societal needs demonstrates by applying fundamental knowledge and technical skills to analyze and support the activities in the field.

PEO2: Lifelong Learning

Facilitate programs of lifelong learning, through skill-based courses and interaction with industryleading to professional expertise.

PEO3: Research and Consultancy

Engage in research and consultancy projects of the department.

PEO4: Leadership Qualities

Develop a sense of social responsibility, leadership qualities, communication skills, and team spirit.

PROGRAMME OUTCOMES

PO1: Engineering Knowledge

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems

PO2: Problem Analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO3: Design/Development of Solutions

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations

PO4: Conduct Investigations of Complex Problems

Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

ORIENTATION PROGRAM

4-Day Program- 23 to 26 July 2021

Department of civil engineering arranged a four-day orientation program for all the department students before starting the regular courses from 23rd July 2021 to 26th July 2021 to give awareness of various aspects in which students and faculty are involved for the next academic year.

The program started with a welcome address by HoD, Dr Raghunandhan Kumar. The importance of orientation, qualities of a good leader, roles and responsibilities of Civil engineers, and the opportunities available were presented. Dr Beulah, Col. Sudhir, and Prof. Sarathchandra presented the importance of Well Being and Mentoring for academic achievements and overall success in life. Dr Aravind presented the importance of Professional Integrity and Academic Integrity.

Dr Nabil Hossiney Jallal presented the importance of research, publication, collaboration research ethics, and high-impact journals. Dr Shibu K. Mani, Dr Sujatha Unnikrishnan, and Dr Sirisha Uppaluri explained innovative assessment methods, formative and summative assessments, feedback systems & blooms taxonomy. Dr Jacob Alex presented details of MOOC courses like NPTEL, Coursera & Udemy.

Prof. Sarath Chandra K. explained on Library Resources, i.e. total no of books available, Journals subscribed and Infrastructure facilities like laboratories, essential equipment's, internet & Wi-Fi. The activities planned under CACE for 2021-22 were projected. Col. Sudhir, Prof. Srinidhi L. Kumar, and Dr Jacob Alex presented on eligibility, course contents & importance of aptitude training, Industry Internship & placement statistics, and available opportunities. Prof Sindhi explained the support provided by the department in the form of skill-based workshops and the events planned for the academic year 2021-22.

Dr Arpan Pradhan, Dr Jacob Alex, and Prof. Adarsh S. V. presented on the Academic Information Management System(AIMS). Prof Yogeshraj explained the examination components, including both the CIA and ESE for both theory and practical courses. Dr Narasimhamurthy and Prof. Thejas H. K. presented on Outcome-based education and accreditation. Course Outcomes were explained in detail. All the students understood the importance of various activities present in the department at the end of the program.

NISA/CIVIL 5-Day FDP - 12 to 17 July 2021



The Department of Civil Engineering organised five days faculty development program (FDP) on NISA from 12 July 2021 to 17 July 2021 for all the faculty members.

The Starcom team took sessions ranging from determining the stress resultants of cantilever beams to analysing and designing structures. A few case studies were also presented.

Extra sessions for faculty have also been arranged for 31 July and 7 August. Mr Shaji E A, Team Lead, gave Introduction to NISA FEA Training Program. Mr Anand K, Application Engineer, presented the General Pre-Post Processing of Basic Models using DISPLAY-NISA, introducing Importing models from CAD & other FE Tools and summary of utility features which helps post-processing easier in various sessions.

Dr Channakeshava C, a Senior Consultant, explained the Introduction to Advanced utilities and Correlating FE Model into Structural Applications. Another Senior Consultant, Dr Ananthan H, introduced Familiarisation of specific FE Element types & their application in Structural Applications: Presentation of Case Studies and made an Interactive session to discuss troubleshooting requirements while performing FE Analysis & Designs.

All the sessions were very informative, and all the faculties were motivated to introduce the concept of NISA in respective courses to the students.





3 Day – Mentorship Training Program 25 to 27 August 2021

A three-day mentorship training program was conducted for faculties of the Department of Civil Engineering, School of Engineering and Technology from 25th – 27th August 2021.

The resource person is Prof Elizabeth Thomas and Prof Deepthi Jose, Department of Psychology, Christ (Deemed to be University), Central Campus, Bangalore. The participants were the faculty of the Civil Engineering department.

Day 1 – 25 August 2021

The session began with the introduction of the resource person and welcomed all the participants. A questionnaire was put forward as to why teachers should learn counselling skills, and after the response from the participants, the reasons were explained in detail, following which the purpose of training and qualities of the mentor was elaborated. A group activity was conducted through breakout sessions to determine roles, responsibilities, and challenges faced during mentoring. Lastly, ethical principles like beneficence, nonmaleficence, autonomy, fidelity, justice, and transparency were explained. Overall the introductory session made the participants eager to know more about Counselling and mentoring skills.



Day 2 – 26 August 2021

The second day of training was opened with a scenario to know the feelings and emotions of a person. Then the session continued with the concept of empathy, development of empathy, types of empathy, and benefits of being empathetic. To understand more about one aspect of empathy i.e. listening skills, an activity was conducted through a breakout session with two participants to share their experiences on how the participants were inspired to become teachers. After this activity, the participants were surprised to learn many things about their colleagues that they didn't know earlier.

The next half of the session was taken by Prof Deepthi Jose on basic counselling skills. The key focus was on attending and the observation skills the counsellor should possess. Few are active listening skills like visual contact, vocal qualities, verbal tracking, body language, use of silence in specific scenarios, etc. This aspect was also best illustrated through an activity where the resource person was the counsellor, and one of the participants was expressing the problem. The session ended with a closing activity in which each participant was supposed to act as a counsellor and share their experience. Overall there were many takeaways from session 2.







Day 3 - 27 August 2021

The third day of the session focused more on mentoring aspects of an essential group of the population, i.e. the adolescents, the age group from 17-20. Common mental health issues seen in the adult group were explained. The role of the mentor and his/her involvement in supporting the mentee was elaborated. The structure of the first mentoring session was brought into the limelight, which includes the introduction of the mentor & mentee, breaking the ice, clarifying the goals and expectations, confidentiality, privacy, and set boundaries.

The vital part is that after the first session, the mentee should feel that he will benefit from the mentoring process. The same was practised with an activity wherein one participant acted as a mentor and the other as a mentee and shared experiences with the resource person.

The cognitive-behavioural therapy-CBT model to work with the students was put forward. CBT is based on the idea that how we think (cognition), how we feel (emotion) and how we act (behaviour) all interact together. CBT aims to help people become aware of when they make negative interpretations and of behavioural patterns which reinforce distorted thinking. Cognitive therapy helps people develop alternative ways of thinking and behaving to reduce their psychological distress.

Lastly, the session ended up with feedback from the participants. The Head of the department Dr Raghunandhan Kumar, thanked the resource person for their time and effort and briefly delivered on different aspects of Counseling and Mentoring.



INAUGRATION

CHRISTITES ASSOCIATION OF CIVIL ENGINEERS CACE - (2021–22)

21 August 2021

The CACE Inauguration began with a silent prayer followed by the Welcome Address by Col Sudhir M.R. Head of the Department, Dr Raghunandan Kumar had given the Presidential address. The office-bearers of 2021-22 were introduced to the forum by Prof Sarath Chandra, Faculty Coordinator of CACE, and the plan of action for 2021-22 was proposed by Mr Ashin Shaji. Dr Raghunandan Kumar inducted the new office bearers, Mr Ashin Shaji as President, Mr Jayesh Rakesh as Vice President, and Ms Nikita as Secretary and wished them a new journey. Prof Sarathchandra also conveyed a special thanks to CACE office bearers of 2020-21 on behalf of the entire department for conducting various events even during the pandemic and congratulated them for the successful release of the Newsletter



²⁰² Frof. ^{time} introduced the Chief Guest of the event, Mr Pravinjith, Managing Director, Ecoparadigm Pvt Ltd, India, and welcomed him to talk. Mr Pravinjith gave a talk on smart city and sustainability – Role of an Architect/Civil Engineer as part of a guest talk during CACE Inauguration. Mr Pravinjith explained the definition of a smart city and some examples of cities becoming smart cities which were a perfect and need-of-the-hour concept.

The session was then taken over by our alumnus Ms Chiku Grace (2013-2017), Currently working as a Technician In a Highway Engineering laboratory in New Zealand after her master's in New Zealand and shared her experiences at CHRIST. The event ended with special thanks to the guests, a vote of thanks by Prof Laxmi and the University Anthem.



DEPARTMENTAL SEMINAR

Artificial Intelligence and Machine Learning Speaker: Dr Raghunandan Kumar R 31 July 2021

On the 31 of July 2021, CACE conducted a departmental seminar on Artificial Intelligence and Machine Learning, led by Dr Raghunandan Kumar, Head of Department, Christ (Deemed To be) University, School of Engineering and Technology, Bangalore, using cisco Webex as a platform.

"AI coming about and replacing routine jobs is pushing us to do what we should be doing: the creation of more humanistic service jobs." These words were said long before the word Artificial Intelligence became a serious thought for humans. This sentence is becoming more realistic in the new era, which we see and visualize with our eyes. Artificial intelligence and machine learning are part of computer science correlated with each other.





These two technologies are the most trending technologies used for creating intelligent systems. Although these are two related technologies, and sometimes people use them as a synonym, both are two different terms. Dr Raghunandan Kumar is a profound speaker and excellent communicator who makes the crowd sit and listen to his thoughts on the topic.

His talk mainly covered the importance of AI and machine learning, and the revolution it can make in civil engineering was beautifully explained. He was unequivocal on its impact in this field and explained how students would benefit as engineers.

DEPARTMENTAL SEMINAR

Application of Trenchless Technologies for renewal of Underground Infrastructure Speaker: Dr Vinayak Kaushal, Civil Engineering, University of Texas at Arlington, USA

13 August July 2021

Students and Faculty members of the Civil Engineering Department attended a webinar on the "Application of Trenchless Technologies for Renewal of Underground Infrastructure", led by Dr Vinayak Kaushal, Assistant Professor of Instruction, Department of Civil Engineering, the University of Texas at Arlington, USA, on 13th August 2021 using cisco Webex as a platform. Prof Srinnidhi introduced the speaker to the forum with a short introduction and welcomed the speaker.



Dr Vinayak explained various aspects of trenchless technologies like open-cut installation, trenchless installation, trenchless market, sustainability of pipeline renewal, life cycle assessment of pipeline renewal, trenchless renewal methods, and considerations. Speaker highlighted sustainability which is a centre for many concerns like environmental, societal, and economic. Students and faculty got exposure to various advanced technologies involved in the renewal of underground infrastructure. Given the outcome, students started thinking about doing projects using these technologies.

At the end of the sessions, various students interacted with the speaker by asking questions about trenchless technology and the future of these methods. The session gave the students new scope to work in civil engineering with the traditional along engineering methods. Prof Laxmi gave the vote of thanks at the end, and the session ended with the University Anthem.



Ecosystem Restoration Venue: Live@CiscoWebEx

Speakers:



Mr Suresh Heblikar, Film Maker, Director and Actor, Founder of Eco-Watch



Mr Amoghavarsha, Film Maker and Wildlife Photographer

05 June 2021

Students and faculty members of the Civil Engineering Department and external participants attended a webinar on Ecosystem Restoration led by Mr Suresh Heblikar, Film Maker, Director and Actor, Founder of Eco-Watch, an NGO and Mr Amoghavarsha, Filmmaker and Wildlife Photographer, on 05 June 2021.

An ecosystem is a geographic area where plants, animals, and other organisms, as well as weather and landscape, work together to form a life bubble. Ecosystem restoration means assisting in recovering ecosystems that have been degraded or destroyed, as well as conserving the ecosystems that are still intact. Healthier ecosystems with richer biodiversity yield more excellent benefits such as more fertile soils, bigger yields of timber and fish, and larger stores of greenhouse gases. Between now and 2030, the restoration of 350 million hectares of degraded terrestrial and aquatic ecosystems could generate US\$9 trillion in ecosystem services. Restoration could also remove 13 to 26 Giga tons of greenhouse gases from the atmosphere. The economic benefits of such interventions exceed nine times the cost of investment. In contrast, inaction is at least three times more costly than ecosystem restoration, summarize Mr Suresh Heblikar and Mr Amoghavarsha.

An overview of Ready-mix Concrete Industry Global and Local Perspective Venue: Live@CiscoWebEx Speaker: Mr Raghavendra Y B, Technical Head – RMC, Infra Market, Bangalore

18 September 2021

Students and faculty members of the Civil Engineering Department attended a webinar on an overview of the Ready-mix concrete industry - Global and Local perspective, led by Raghavendra B, Technical Head – RMC, Infra Market, Bangalore, on 18 September 2021, using Cisco WebEx as a platform. He was awarded as the youngest engineer of Karnataka in 2016, sponsored by the Indian Concrete Institute of Bangalore, and his research includes special concrete, use of admixture in concrete, concrete mix design & curing of concrete. He is also a lifetime member of ICI and ACCE.



Prof. Sarath Chandra introduced the speaker to the forum with a short introduction and welcomed the speaker. Mr Raghavendra Y B explained the company overview, Ready Mixed Concrete (RMC), different topics on RMC like attributes of RMC, merits of RMC, Quality Control (QC) Process, Material tests, mix designs, special concrete, and more. At the end of the sessions, many students interacted with the speaker by asking questions about RMC plant maintenance and settlement of concrete while transporting, and so on. The session gave the students new scope to work in civil engineering along with advanced technologies involved in RMC plants. Prof Laxmi gave a vote of thanks at the end, and the session ended with the University Anthem.



Conceptualizing Digital Built Environment with focus on BIM

Venue: Live@GoToWebinar Speaker: Mr Shrutiniwas Sharma, Assistant Professor and MBA Co-ordinator School of Construction, RICS SBE Noida.

25 September 2021

Students and faculty members of the Civil Engineering Department attended a webinar on Conceptualializing a digital built environment with a focus on BIM, led by Mr Shrutiniwas Sharma, Assistant professor and MBA coordinator school of construction, RICS SBE Noida; on 25th September 2021, using Gotowebinar.

Faculty of RICS SBE Noida introduced the speaker to the forum with a short introduction and welcomed the speaker. Mr Shrutiniwas Sharma and Mr Srinidhi Lakshmish Kumar explained and thanked RICS for this opportunity on behalf of the HoD and students of the civil engineering department.

Mr Shrutiniwas Sharma gave an overview of grand challenges for the Indian construction industry, key challenges faced by the construction industry, industrial revolutions, cyber-physical systems (CPS), BIM engagement, BIM workflow, monitoring phase workflow, digital efforts in built environment creation, implementation attitude, industrial revolutions, construction framework, integrated workflow, enabling technologies and keyframes.

Alumina from Christ Deemed to be University and RICS SBE shared his experience and the advantage of doing this course from RICS SBE Amity university. The session gave an idea to the students what they can opt for MBA courses in BIM from RICS SBE after Btech in civil engineering. The session ended with a vote of thanks by the faculty of RICS SBE.





Guide to Access American Society of Civil Engineering (ASCE) Digital Collection

Venue: Live@CiscoWebEx Speaker: Mr Venkatesh V, Head of Training and Development, Knimbus Online Pvt. Professional Association: CACE, ICI and ACCE, ASCE

29 September 2021

Students and faculty members of Civil Engineering Department attended a webinar on "Guide to Access American Society of Civil Engineering (ASCE) Digital Collection" organized during the library week on 29th September 2021 at 12;00 noon.

Mr Venkatesh, V was the trainer for the session and is the Training head from the Knimbus Online PVT. Prof Sarath Chandra introduced the trainer, Mr Venkatesh V, to the forum and handed the session to the trainer. Mr Venkatesh explained the availability of a valuable online resource called ASCE digital collection to all the civil engineering students of Christ University. He explained that any student from any part of the world could access ASCE digital data using a username and password. He explained how to access the digital collection data in a step-by-step manner and also presented the process of downloading any article from the ASCE database by sharing the live window. It helped all the students read excellent articles to understand the ongoing research in civil engineering. It was a very beneficial session for the students, especially for the PG students who are starting their final year projects to read many articles freely. Many students interacted with the trainer and clarified their doubts. The session went on very effectively, and all the students and faculty received the session very informative. The session ended with the vote of thanks by Mr Satish, librarian of Kengeri Campus, Christ (Deemed to be University) Bangalore.





Women Empowerment

Venue: Live@CiscoWebEx Speaker: Dr Bharathi Ganesh, (Professor) HoD Department of Civil Engineering, NITTE Meenakshi Institute of Technology, Bangalore

o8 March 2022

Students and faculty members of Civil Engineering Department attended a webinar on Women's Empowerment, led by Dr Bharathi Ganesh on 8 March 2022 using Cisco Webex. Dr Raghunandan Kumar welcomed the gathering by wishing all the ladies with Happy worlds women's day wishes and Dr Sujatha Unnikrishnan introduced the speaker to the forum with a short introduction and welcomed the speaker.

Dr Bharathi explained about civil engineer's build and explained how much scope it has, explained a different project as an example, and then motivated all the students with the thought that choosing civil engineering as a career is not less than a good opportunity, moreover, she explained about what all things are expected from a civil engineering graduate. She also delivered about women's empowerment where she explained how women should enjoy playing the key to sustainable development and quality of life in the family.





She explained what is women's empowerment and the general perception and policies of women's empowerment in civil engineering, she also mentioned different schemes made by the Government of India for the females of India. She had spoken about different myths about women and how to empower yourself through them. Hence, she ended up the webinar with a conclusion saying that the women perform the role of wife, partner, organizer, administrator, etc in the family at the same time and apart from that, how woman plays a key role in the socio-economic development of the society. The session had given new scope to the students to work as a civil engineers along with that it inspired all the female students too. Prof Laxmi had given a vote of thanks at the end and the session ended with the University Anthem.

TECHNICAL TALK

Nano Composites - An Insight

Venue: Block 3 Auditorium Speaker: Dr N S Kumar, Professor HoD Department of Civil Engineering, Director R&D, Ghousia College of Engineering, Ramanagara

05 April 2022

Mr Cyril Siby, an MTech Structural Engineering student, welcomed the gathering. Ms Rahee Bhattacharyya, 4th semester BTech Civil Engineering student introduced the guest speaker, Dr N S Kumar. Dr N S Kumar introduced nanocomposites to the audience. He explained the application and advantages of nanocomposites. Based on his research findings he explained the strength parameters of nanocomposites. He also explained the characterization tests used like SEM, XRD etc.

Students and faculty members interacted with the guest speaker and he was kind enough to answer all the queries. HoD, Dr Raghunandan Kumar presented a sapling to the guest speaker. The session ended with a vote of thanks.





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Poster Making Competition SMART CITIES

03 September 2021

Venue: Live@CiscoWebEx Professional Association: Association of Consulting Civil Engineers (India) Faculty Co-ordinators: Prof. Sarath Chandra and Prof. Yogesh Raj URS

The Department of civil engineering organized the competition for all the students of the Department through the students association called CACE on 3rd September 2021 at 5:00 pm.

Prof Yogesh and Prof Sarath Chandra were attended as judges for the event. The competition theme was smart cities, a very popular concept around India. Each student is allowed to present their poster and explain it for 5 minutes and 1 minute for question and answers sessions. Students presented various posters on themes starting from the new technologies and smart ways to develop our cities into smart cities. Students also shared different views on developing a rural part of India into a smart city with advanced technologies and methods.







Students from both UG and PG participated in the competition. They explained what a smart city is India's mission concerning smart cities and how to convert all our cities into smart cities. It was exciting to view students' various aspects and ideas for transforming a city into a smart city. Prof Sarath Chandra had suggested that all the students work on them as real-time projects and present them during the Engineers day program of 2021. Prof Yogesh congratulated all the students, motivated their ideas, and gave valuable inputs for the improvement of various skills concerning poster making and presentation. Finally, Abhinaya from 7BTCI was selected as the winner of the competition.

BYJU'S Career Counselling by BYJU's 16 September 2021

Venue: Live@CiscoWebEx Faculty Co-ordinators: Prof. Sarath Chandra

A career guidance counselling was organized for the students of the civil engineering department and electrical engineering department to help them move on the right path in the future on 16th September 2021 using Webex meetings.

The councillor of the day was Mr Mark Brandon Vernum from Byjus, Bengaluru collaborated with CLABS. It was a very interactive session from both sides. The counselling started with getting to know each other, like where students are from and additional basic information about students.

As students are under the pressure of what they will do when they graduate, counselling was an answer to it.

The following topics were covered during the session:

- 1. Supply and Demand theory of Engineers
- 2.Based on the status of the Student relationship with Engineering
- 3. Technical, Managerial, and Techno-Managerial and Creative Role.
- 4. Higher Education
 - a. India CAT, GATE, UPSC
 - b. Abroad- GRE
- 5. Myth Breakers about staying in India for Masters.
- 6. Courses like MEM and OPT
- 7. Advantages of GRE and List of Colleges Abroad
- 8. List of companies with huge salaries and always open
- 9. How to prepare your CV

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LET'S BREAK THE MYTH	L Bandun Virtz
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Problem / Myth Fees in Less in India	Ectution/Myth Buster NUS Singapore MiM, Scandinavian Countries
Problem / Myth IMs/IIT Masters Pay are good	Betution/Myth Buster NUS MiM Salary > IIMs Salary Abread PhD. >> IIT M.tech/PhD Research Salary
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Engineer's Day 2021 18 September 2021

Venue: Live@CiscoWebEx Speaker: 1. Dr J.R Bangera, Member National MSME Board 2. Mr Daniel Jeevan, Operations Manager, STEAG Faculty Co-ordinators: Dr. Jacob Alex

ICETECH, the Engineers day Open Air Project Exhibition is the legacy of the School of Engineering and Technology, CHRIST (Deemed to be University), during which the students build/carry out engineering projects or working models and exhibit them to the outside world.

This year, in view of the Covid19 pandemic situation, ICETECH is being organized as a different version, conducted on a virtual medium named ICETECH+ 2.0 2021. This year the theme was based on Engineering and Design. The finals of this event were conducted on the 18th of September. The finals were contested by five teams shortlisted among 100 teams.

The shortlisted ideas from the departments, including SoA, were evaluated in a qualifier round where the judging panel will have experts external to the deanery (Faculty members from other departments and centres of the University/ Alumni entrepreneurs).

This Qualifier round will shortlist the best five ideas from each theme which will be presented at the grand finale. The finale was judged by Dr J.R Bangera, Member National MSME Board, and Mr Daniel Jeevan, Operations Manager, STEAG Center for Smart City Technologies. There were two teams from the Computer Science and Engineering department and one from Civil Engineering, Electrical Engineering and Mechanical Engineering Departments, respectively.

Dr Iven Jose, Dean, SOET, CHRIST (Deemed to be University), conferred the presidential address, and Dr Fr. Benny Thomas, Director SOET, CHRIST (Deemed to be University), declared the results of the event.

Engineer's Day 2021 18 September 2021

The winners of ICETECH 202I:

ENGINEERING

First Place: SMART INVENTORS (Civil Engineering Department) *Second Place (Shared):* WINCHESTER (Mechanical Engineering) & KOTA R (CSE)

DESIGN

First Place: ASHWAGANDA (SOA) *Second Place:* TEAM WRIGHT WRONG (SOA)





Video Making Competition EVOLUTION OF STRUCTURES

02 November 2021

Venue: Amogha Hall Professional Association: Association of Consulting Civil Engineers (India) Faculty Co-ordinators: Dr. Beulah and Dr. Sirisha Uppaluri

The Department of civil engineering organized a video-making competition for all the students of the Department through the student's association called CACE on 2nd November 2021 at 4:00 pm.

Dr Beulah and Dr Sirisha Uppaluri were attended as judges for the event. The competition's theme was the "Evolution of Structures", a trendy and essential concept to understand by every student. Each student is allowed to present their video for 3 minutes and explains it for 2 minutes and 1 minute for question and answers sessions. Students presented various videos on themes from the Roman period to the current generation.



Total 8 videos were presented in the competition, and judges evaluated the videos based on the time limit, content, and innovation in the video-making methods. Participants were also actively involved in the question and answer session and shared various thoughts. It is concluded with a very positive note of both the judges and suggested conducting more such events to know the history of structures and how the current structures have evolved. Judges congratulated the CACE team for choosing such an innovative topic for the video-making competition and all the participants for making time to present their videos. Finally, Navaneeshwar Reddy from 3BTCI was selected as the winner of the competition

DEBATE

17 November 2021

Venue: Amogha Hall Professional Association: Association of Consulting Civil Engineers (India) Faculty Co-ordinators: Dr. Arpan Pradhan and Prof. K Sarath Chandra

The Department of civil engineering organized a Debate competition for all the students of the Department through the student's association called CACE on 17th November 2021 at 4:00 pm. Dr Arpan Pradhan and Prof Sarath Chandra were attended as judges for the event. The topic chosen for the debate was "Is Artificial Intelligence dangerous or the future".

Each team has given 5 minutes to debate what they are prepared for and 1 minute to conclude the session. A total of 6 teams of 5 students in each group have participated. Students from all the semesters participated actively in the debate and discussed various points about artificial intelligence.





They debated on various points like unemployment, the accuracy of work done, and more opportunities to develop multiple advanced technologies and so on. It was an excellent session on highlighting various points related to artificial intelligence. Judges congratulated all the participants and explained both the pro and cons of all the teams for the betterment of them the future.

The team comprising of Naveed Khan, Narasimha, and Rajasekhar from 5BTCI and Teena and Mounika from 3BTCI were selected as the competition winners.

DEPARTMENTAL EVENTS ONLINE CHESS COMPETITION 11 March 2022

Venue: 3rd Block, 4th Floor, Room No.-559 Professional Association: Association of Consulting Civil Engineers (India) Faculty Co-ordinators: Prof. K Sarath Chandra

Christ Association of Civil Engineering) organized an online chess competition for the students. Then Ashin Shaji, the president of Christ Association of Civil Engineering, explained all the rules and regulations and further explained how the matches would be held in the presence of Prof. Sarath K Chandra. The games were held using the app Chess Royal in the classroom of the 3rd block. In the first round, around 12 participants were in the pair of 2, so there were six teams, and the matches between two students were held by picking the chits. In the 2nd round, three pairs made it through, and in the last and final game, two teams were there. Soon after the completion of the match, the winners were declared by the faculty in charge. 1st prize was given to Narashima, 2nd prize was given to Barath, and the 3rd prize was given to Francis. This event encouraged many students, and we hope to get more opportunities to attend such events by CACE.



EXTENSIVE SURVEY PROJECT

2-Week Survey Camp - 16 to 25 August 2021



Every year Civil Engineering department conducts a two-week extensive survey camp. The camp is usually conducted at Lavasa, Pune, or Melkote, Karnataka. But due to the current situation of covid and its restrictions this camp was rescheduled for the year 2020-2021.



Keeping the safety of students in mind & the importance of the survey camp the Civil Engineering department gathered all students with proper protocols and conducted the two weeks extensive survey at Christ university Kengeri campus from 16 August to 25 August 2021.

This camp involved conducting the survey of the Kengeri Campus using Total Stations. It was proposed for construction of a new tank, restoration of the old tank, road re-alignment, and water supply project for daily usage on campus as a part of the survey camp.



Students had hands-on experience with total station doing all the projects in groups & with the guidance of teachers and were completed successfully. At the end of the camp, students had the opportunity to witness the drone survey of the campus. This was the first time ever students did a survey of campus with a pleasant atmosphere & a beautiful lush green campus by themselves and having a great time during this period.

27 November 2021

Venue: AKSHAYAKALPA, 367/G, 3rd Main Rd, Sharada Nagara, Marana Gere, Tiptur, Karnataka 572201

Faculty Co-ordinators: Dr Beulah M, Prof. K Sarath Chandra, and Dr Arpan Pradhan





Akshayakalpa is the first Certified Organic Milk Brand in India. They deliver fresh Organic cow milk and organic milk products in Bengaluru and Chennai. From the farm to the customer's doorstep, they deliver fresh milk in Bengaluru with the goodness of nature. With a continuous cold chain, they deliver our fresh milk within 24-36 hours with no preservatives, no hormones, no antibiotics. Just 100% organic and healthy. The organic journey of all our products begins at the farm where our cows are fed farmgrown organic fodder.

We reached at AkshayaKalpa by 12:30 P.M, after a short introduction of the importance of Akshayakalpa dairy products and their effectiveness in the present dairy farming society, we moved on to see the farm. We were divided into multiple groups to visit the research and development on the agro sector as well as the dairy sector. We were refreshed with in-house tea and coffee as a welcome drink prior to the field tour. They abide by the Gandhian principle.

The research and development facility in dairy products was well accustomed to a very proper and tidy environment. The idea of increasing the yield of cows was developed in such a way that facilitating a stress-free environment for them so that the release of stress hormones in the milk would drastically be reduced as to facilitate a very nutrient-rich dairy product.



Effective cleaning and proper food that is specially designed to meet the requirement of daily intake of cows is provided in a cowshed and the fodder is prepared from the field where the excreta of the animal is used to replenish the soil nutrients. Another biogas plant is established which is used to fuel the heaters in the plant.

The research and development happening in the agro field are much more complex. They have been designing fields for the benefit of farmers with the very limited property. They provide for feminine farmers. These methods are used to support them even if they are limited with possibilities. They call it the layered system. They effectively look on them as a source of income for small-time farmers. They have an in-house farm capable of harvesting 1200 kg supplies every month which is under the supervision of one woman.







In Akshayakalpa the organic farm is well oriented and organized, they look into the quality of the items included in the farm, we could experience the freshly cooked veggies as a lunch in akshyakalpa. The freshness they produce is truly impeccable. The richness in veggies and fruit we could feel within ourselves.

The tour guide explained to us the importance of fresh-grown veggies and fruit. It mesmerized me when I got to know that veggies and the cows in the manger are looked at by the women, this organization is women-oriented and has a women-oriented organization scheme.

Chemically added fruits and veggies we could see in every market and fruits selling shopkeepers, but Akshayakalpa does not compromise the human health and welfare of the living individual.

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INTERNATIONAL CONFERENCE



ONLINE CONFERENCE ON NOVEL RESEARCH TRENDS IN CIVIL ENGINEERING (NRTCE 2022)

CONFERENCE DATES 17-18 MARCH, 2022

VISIT HERE https://nrtce.christuniversity.in/

NRTCE 2022 aims to bring together on virtual platform researchers, engineers, developers and practitioners from academia and industry working in all major areas and interdisciplinary areas of Civil Engineering and its' allied areas such as Structural Engineering, Construction Materials, Geotechnical Engineering, Environmental Engineering, Water Resource Engineering, Disaster Management, Risk and Hazard Analysis and Artificial Intelligence and Machine Learning to share their experience, exchange and cross-fertilize their ideas. The two-day virtual conference conducted on 17 and 18 March 2022 will feature prominent personnel from the Civil Engineering presenting their ideas and will include keynote speakers and panel discussions.

INTERNATIONAL CONFERENCE

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NRTCE 2022 invites original and unpublished research papers on the following topics, but are not limited to :

- Construction Materials and Management
- Structural Engineering
- Geo-technical Engineering
- Traffic and Transportation
 Engineering
- AI ML in Civil Engineering
- Remote Sensing, GIS and Smart cities
- Water Resources and Environmental Engineering
- Disaster Management
- BIM Building Information Modelling



FAREWELL

FAREWELL AND TALENT RECOGNITION DAY

04 May 2022

Venue: Block 1 Auditorium Professional Association: Association of Consulting Civil Engineers (India)

It's a culture and tradition to say goodbye to all the outgoing students of undergraduate and postgraduate students of the department of civil engineering through the student's association called CACE by involving all the juniors and faculties. Like every year this year also department conducted a farewell and talent recognition day on 4th May 2022 in block 1 auditorium at 4:00 pm.

The program has begun with a prayer song by Darren and Aditya and the master of the ceremony of farewell Ms Rahee Bhattacharya invited Ms Arya from her final year to give a welcome address to the gathering. Upon completing welcoming all the audience, a beautiful video made by CACE by using the photos of seniors as Memories at Christ was presented and bought a farewell mood among all the outgoing students. The Head of the Department, Dr Raghunandan addressed the students and appreciated all the efforts made by the outgoing students even during the pandemic and conveyed his best wishes to all the students.



FAREWELL

Prof Sarath Chandra, the Faculty Coordinator of CACE, announced the best outgoing students in academics, sports, culture, crafts and designs and overall category in BTech and the best outgoing student in academics and overall category in MTech. Dr Raghunandan presented a certificate and mementoes to all the achievers and wished them good luck in their future endeavours. Prof Sarath announced the winners of various events conducted by CACE during the academic year 2021-22. Dr Aravind HB presented the certificate and memento to all the winners and wished them. Prof Laxmi announced the list of students who had completed the NPTEL course of 12 weeks on Bridge design. Dr Narasimha Murhty presented the certificates to the students who had completed the course with elite certifications.

Dr Beulah and Prof Srinidhi L Kumar shared their experiences with the current outgoing batch of students, and all the students enjoyed the views shared by the faculties. Ms Babitha, Mr Rajeen, Mr Rison from final year BTech and Mr Cyril Seby from final year MTech shared their experiences at the department and how they have grown into professionals in the span of 4 years of BTech and two years of MTech. Every student felt very emotional at the end and thanked all the faculties for encouraging and supporting them in all the difficult situations during their course work. Finally, the event ended with University Anthem, followed by a group photo session.





FAREWELL



Outgoing PG Students with Faculty Members



Outgoing UG Students with Faculty Members

PLACEMENT





for a paid internship-cum-placement in Amoura Consol, Sydney, Australia



for undergoing a Global Certification training on Project Management by Amoura Consol, Sydney, Australia

PLACEMENTS



Member of the SNC-Lavalin Group









FOUR-MONTH INDUSTRY INTERNSHIP

Colliers



Rison Baby



Babitha M Mulge



Parul



Navaneeth Devdas

Bibin P Biju



Bilu **Babichan**



LIFE'S ON

manipalhospitals

Deekshitha



Alma Joseph

Jose Tom

Sunny



Sarathy Geotech Engineering Sevices



Varghese

carbo[°]n constructions



Jetson George



Rony Baby



Kumar



eco paradigm

Prajwal N Raichurkar



NPTEL CERTIFICATION

Miss Alma Joseph - 1860111, Mr. Jetson George - 1860118 Mr. Rohith G - 1860108





George



Alma Joseph

Rohith G

Reinforced Concrete Road Bridges is a four-week course offered by NPTEL-Project funded by MHRD, Government of India. The course instructor is Prof. Nirjhar Dhang, currently a Professor at the Department of Civil Engineering, Indian Institute of Technology, Kharagpur.

Three students of BTech VII sem, Miss Alma Joseph-1860111, Mr Jetson George-1860118 and Mr Rohith G-1860108, registered for the course as they were also learning this course during the semester.

Department of civil engineering congratulates all the three students for their interest in taking the course and completing it with an Elite Certificate.



DEPARTMENT PUBLICATIONS



Indexed Publications

10+ Web of Science/ SCI Indexed 44+ Scopus Indexed 20+ UGC Care List Indexed

13+ Book Chapters



DEPARTMENT PUBLICATIONS



PAGE 41

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