


MAR BASELIOS

COLLEGE OF ENGINEERING AND TECHNOLOGY

AUTONOMOUS

BCET
Bulletin

College Code : MBT. Accredited by NAAC with A grade. Five B.Tech Programmes accredited by NBA since 2016.

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PRINCIPAL'S MESSAGE

The rescue operations in the Silkyara tunnel in Uttarakhand attracted attention world-wide. The actions taken to bring the 41 workers out and save their lives were unparalleled. Tunnels are seen as solutions for convenience in places where the climate swings between the extremes and also to cut short the route length. There are evidences of underground passages made by the ancestors. It is found that the first tunnel was made by the Egyptians and the Babylonians, 4000 years ago. The largest tunnel in ancient times was constructed between Naples and Pozzuoli, in 36.B.C. This tunnel was 4800-feet-long, 25-feet-wide and 30 feet in height. (<https://theconstructor.org/>) The tunneling, works better for different approaches under different circumstances. It is hence dependent on the experience and the knowledge of the Engineer. Mainly tunneling works are carried out by the Civil Engineers. This discipline will let us know, that the knowledge on structural and concrete technology is not sufficient. An equal and thorough skill and knowledge of Geology, Mechanical Engineering, Geomechanics and the new construction technologies are also essential. We have seen that in the rescue operations at Silkyara, all the modern technologies and even the traditional skills have come to the use in removing the debris and also to keep the workers living comfortably without becoming panic-stricken. In the risky projects of tunnelling, it should be possible for the Engineers to address the two main aspects namely the alignment restraints and the environmental considerations so that the efficient route of the tunnel is determined and the project is executed. Let us use technology lavishly to ensure safety and environmental protection while building new routes through the underground.

Dr. Abraham T Mathew

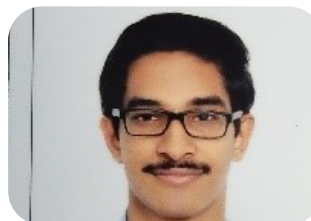
STUDENT ACHIEVEMENT

1 MACE-MUN winners



A delegation of 22 students from our college had participated in MACE-MUN 2023. The following students won: Yash Chhalotre(S3 EL) and Bevis Mathew Thomas(S1CS1) in UNODC, Joel Ipe Samuel(S5CS1) in UNHRC, Ryan M Jacob(S3 EC2) and Ashlin Anil Anthony(S3 EC1) in photojournalist, Best Delegation in IP: Abin S Manoj(S1 EC2), Vaishnav Prabhath(S3 EC2) in CCC. Congratulations !

2 Entry in National Yoga Book of Records



Mr. Kiran Biju S3 CS1 was a member of the 32 people group who performed 154 types of yogasanas in 1540 seconds in 1540 seconds on 2 October 2023 and got their names in the Inter National Yoga Book of Records.



Vision: To be an Institution moulding globally competent Professionals as epitomes of Noble Values.

Mission: To transform the Youth as technically competent, ethically sound and socially committed professionals, by providing a vibrant learning ambience, for the welfare of humanity.

INAUGURATION OF IGS STUDENT CHAPTER AND NATIONAL SEMINAR



The Indian Geotechnical Society Student Chapter was inaugurated on 29 November 2023. The Guest of Honours for the event were **Dr. Anil Joseph**, IGS President, **Dr. R Shivawshankar**, Professor (Rtd.) NITK Surathkal; **Er.T K Alexander Vaidian**, CEO Relcon Foundations; **Dr. Unnikrishnan N**, Professor CET Thiruvananthapuram and **Dr. Jayamohan Jayaraj**, Hon. Secretary of the Thiruvananthapuram Chapter. **Dr. Abraham T Mathew**, Principal MBCET, presided over the session. **Dr. Unnikrishnan N** briefed about the IGS and **Dr. Anil Joseph** delivered the inaugural address, followed by felicitations from other guests of honor. The office bearers are : **Ms. Diana Alice Sugunan**, IGS Mentor introduced the executive members- **Adithya Devan** (President), **Grishma Nair** (Vice President), **Nidha Fathima Z.S** (Secretary), **Lekshmi Gayathri A** (Joint Secretary), **Adarsh S.L** (Treasurer), **Shaheen Noushad**, **Ahamad Sahil N.S**, **Allen Sam Biju**, **Rickey R.B**, **Niranjana Raj**, **Namitha Kurup P.S** (Year Representatives), **Rahul Rajan**, **Adhityan A.S** (Media handler).

One day National Seminar on Modern Geotechnical Engineering was held on the same day. The Seminar included Technical sessions by the Resource Persons: **Dr. Anil Joseph**, **Er. T K Alexander Vaidian**, **Prof. R. Shivashankar**, **Dr. Unnikrishnan N** and **Dr. Jayamohan Jayaraj**.

SITE VISIT



Students of S5 CE1 visited various construction sites on 1 December 2023. They were taken to the Aranganasheri Bridge construction site, Amboori-Kuravimala connection bridge site and Kallikadu Convention Center construction site. The visits were coordinated by **Ms. Lekshmi Chandran AP,CED**, **Mr. Sreeju Nair** and **Ms. Jomy James AP,CED** accompanied the students.

INDUSTRY SITE VISIT



Students of S5 CE2 were taken to India Cement Manufacturing plant, Tirunelveli, Tamil Nadu on 2 December 2023 as a part of the course Design of Concrete Structures. The visit was organized by **Mr. U. P Govind** and accompanied by the Faculty Member **Ms. Jisa Jose**.

VISIT TO SCTIMST



A visit to SCTIMST was arranged for the 3rd Semester B. Tech students doing minor in B.Tech Electronics and Communication Engineering (Biomedical Engineering basket) on 6th December 2023 AN. Faculty incharge: **Dr. Jayakumari J**, Prof. & Head, Dept. of ECE

EXPERT TALK

The Control Systems Research group, Department of Electrical and Electronics Engineering organised an invited talk on the Control Aspects of Soft landing of Chandrayaan - 3 for the final year students on 8 December 2023. The resource persons for the session were **Ms. Revathi H**, Group Director, LPSC, ISRO and **Mr. Benoy Joseph K**, Divisional Head, LPSC, ISRO.

SMART INDIA HACKATHON 2023



A Team consisting of **Aathish R Viswam** (S3 EL), **Yash Chhalotre** (S3 EL), **Varsha Rachel George** (S3EL), **Vishnu B S** (S3 EL), **Amal S** (S3 EL), **Nandana Krishna** (S3 EL) got selected for the finals of Smart India Hackathon 2023. They are one among the 5 teams shortlisted from Kerala. Congratulations !

PROJECT EXHIBITION



A group of students from EED 2023 pass out batch, displayed their project work “Multi-Purpose RFID Tag (M-TAG)” at Navajeevan Bethany Vidyalaya, Nalanchira on 30 December 2023. The Group Members were **Arya A**, **Greeshma D G**, **Jeenu L Jose**, **Rohith U Nair** and **Laby Mathew Ninan**.

MOOC COURSES

Ms. Shilpa Susan Peter completed two MOOC courses namely Design of Electric Motors and Control Engineering with Elite certificate.

INTERNSHIP

Abhishek Raman R and **Adithya Krishnan S5 CS1** were selected by Hex20 for internship based on a test covering topics from Basic Electronics, Programming in C & SPACE.

BOOTCAMP ATTENDED

Dr. Tessa Mathew, Professor, Dept. of CSE, participated in the “Machine Learning with TensorFlow Bootcamp” organized by the ICT Academy of Kerala in association with Google for Developers India Edu Program on 18 November 2023.

ONLINE WORKSHOP ATTENDED

Ms. Syama S. Mohan and **Ms. Sruthi Janardhanan**, Asst. Professors (S & H) attended a 5-Day Online Workshop on Mathematics for AI Level I: Foundation, held from 20 to 25 November 2023 conducted by MERIT in collaboration with Matlab Research.

FDPs ATTENDED

- **Ms. Diana Alice Sugunan**, **Ms. Sangeetha Sajeev**, **Ms. Anupama Krishnan**, **Mr. Nitin S** and **Ms. Lekshmi Chandran**, Faculty Members of Civil Engineering Department attended a 5-day online FDP on “Incorporating Universal Human Values in Education” (UHV- 1) organised by AICTE from 25 to 29 September 2023
- **Dr. Tessa Mathew**, Professor, Dept. of CSE successfully completed the FDP on “AI Evolution: From Foundations to Generative AI” under TechSaksham from 14 to 18 November 2023.

NPTEL COURSE COMPLETION

Dr. Neethu Roy, Faculty Member of Civil Engineering Department successfully completed a 12 week course on Sustainable Transportation Systems with Elite Certification.



DAB MEETING - MED

The Department Advisory Board (DAB) meeting of the ME department was held on 2 Dec 2023. **Dr. Nidhi M. B.**, Associate Professor coordinated the meeting. Members from the teaching faculty, selected parents and alumni participated in the meeting. The meeting was conducted in online mode, suggestions put forwarded by DAB members were noted for further action.

PAPER PRESENTATION

Mr. Jijo Jose and Mr. H. Aravind Sarma, Asst. Prof., Dept. of ECE presented a paper titled “**Real-time Fall Detection Model with Action Recognition based on Deep Learning**” in the IEEE-sponsored 2023 Global Conference on Information Technologies and Communication (GCITC) organized by the Reva University, Bengaluru, India from 1 to 3 December 2023.

BLOOD DONATION CAMP



NSS Units 230 and 706 along with Phoenix Trivandrum NGO organization, Enix the Department Association of ECE, and Illumina, the Association of Dept. of EEE conducted a blood donation camp on 30 November 2023. **Sri Brahmanayakam Mahadevan** inaugurated the session. More than 68 volunteers registered for the camp and 39 students donated blood in the camp.

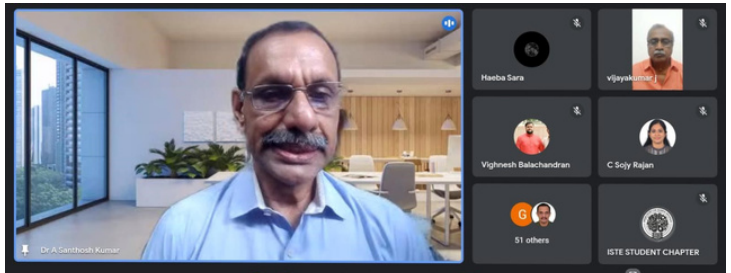
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ISTE NEWS

AIDS Day



On 1 December 2023, this AIDS day, SHE ISTE MBCET, in association with IMA Nemom and WIMA, organized an awareness talk titled AVABODH on the topic ‘Shattering the Stigma: Understanding HIV and AIDS’. **Dr. Santhosh**, Professor in Pediatrics and Medical Superintendent at Azeezia Medical College, Kollam was the Resource Person. He explained the crucial aspects of HIV/AIDS and need for awareness, including current challenges, prevention strategies, medical advancements, etc. About 60 students attended this interactive session.

Civil Service Orientation Class



On 6 December 2023, ISTE MBCET hosted a Civil Service Orientation class in Senatus Hall. **Mr. A. U Prasad**, Academic Head of Top Notch IAS, led the class. The session was attended by about 50 students. Through the session, attendees gained a better understanding of how they should prepare for the Civil Service Examination.

SPORTS AND GAMES



Vineeth Rohan S7 CE 1 got selected to the KTU University Volleyball Team for the third time and he has also been selected as the captain of the University Volleyball Team. Congratulations !

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