

C.H. MOHAMMED KOYA

KMEA ENGINEERING COLLEGE

AFFILIATED TO KTU



KUZHIVELIPPADY, EDATHALA, ERNAKULAM DISTRICT, KERALA, PIN: 683 561.

JANUARY 2022

VISION

To mould students to excel in academics and research in the field of civil engineering and committed to the upliftment of underdeveloped sections of the society through effective teaching learning process.

MISSION

- To impart quality education to meet the upcoming challenges in the field of civil engineering.
- To inculcate social responsibilities, ethical values and motivate the students for lifelong learning and excel in professional life.
- To nurture students to become competent civil engineers with creative thinking, innovations and research through effective mentoring and academic ambience.

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VOLUME 2

ANNUAL NEWS LETTER

DEPARTMENT OF CIVIL ENGINEERING

INSIGHT

"Education is the kindling of a flame, not the filling of a vessel."

The Department of Civil Engineering was established in 2008 and has been continuing its glorious journey ever since, being the most dynamic and broadest branch in KMEA. Our department is devoted to providing the best guidance, facilities and opportunities to develop the technical skills, outlook and personality of our students.

PROGRAMME EDUCATIONAL OBJECTIVE (PEO)

PEO1: Graduates will be equipped with knowledge, skills, and abilities to perform various functions as competent civil engineers.

PEO2: Graduates will be oriented towards creative thinking and research to tackle problems in civil engineering with social commitment and ethical values.

PEO3: Graduates will have successful careers in different fields of civil engineering and adapt to modern trends by engaging in life-long learning.

PROGRAMME SPECIFIC OUTCOME (PSO)

PSO1: Apply knowledge of mathematics, science and engineering to investigate, identify, formulate, analyze, design and solve problems in various disciplines of civil engineering with professional and ethical responsibility.

PSO2: To develop innovative, sustainable and modern infrastructure to meet societal needs and environmental challenges.

PSO3: Utilize the latest technologies and managerial skills for professional development and gain sufficient competence compatible with the industry demands.

HOD'S MESSAGE



I am delighted to present the welcome message for our annual newsletter 'INSIGHT' which gives glimpses of the cumulative efforts of the Department of Civil Engineering. The entire department is dedicated to provide the best to our students by conducting various technical events apart from the regular academics. The students and faculty of our department are always proactive in taking initiatives to conduct technical and cultural events. I congratulate the entire civil engineering department for their contribution to department activities and look forward to future developments. I appreciate the efforts of the Editorial Board for in-house development of this newsletter.

EDITORIAL

The past year has been a testing time for us, which made us realize how valuable interpersonal communication can be in our daily life. But it also gave us an opportunity to reflect on our life and discover our potential to move forward in spite of all the challenges. Thanks to the transformation brought by the smartphone revolution in the last decade, because of which our students could carry on with their education, despite the pandemic situation.



It is an immense pleasure to present the first edition of 'INSIGHT'. This newsletter is a testament of the enthusiasm and perseverance of our students and faculty. Our faculty, who are the pillar of strength of our department, managed to organize numerous webinars and a national workshop through online platform. I would like to express my immense gratitude to the editorial team and other colleagues for their sincere contribution and dedication in making this newsletter a solid reality. Hope this will inspire our beloved students to excel in the future.

DEPARTMENT ADVISORY BOARD (DAB)

Dr. Chithra V. S, Head of the Department

Ms. Bindu Sebastian, Associate Professor

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Dr. S. M. Shiva Nagendra, Professor, IIT Madras

Dr. Sobha Cyrus, Professor, CUSAT

Dr. Anil Joseph, Managing Director, GeoStructurals Pvt Ltd.

Mr. Ajith V, Project Director, Larsen & Turbo Limited

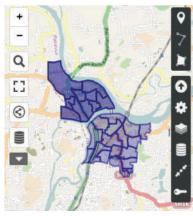
Mr. Salih K, Director, Asbuilt Engineering Evolution

Mr. Jose Varghese, Parent Representative

Ms. Anzila K. N, Student Representative

FUNDED PROJECTS

MAPATHON KERALAM



Kerala State IT Mission (KSITM) has sanctioned funding for the Department of Civil Engineering for the 'Mapathon ambitious Keralam' project, crowd-sourced mapping initiative. The project creating aims at micro-level maps of the

entire state for identifying all the natural and physical assets. The free online map, titled Open Street Map, was used for this project. The project was led by Asst Prof. Lakshmy E. G. A team of five faculty and 30 students was constituted for the mapping of Aluva Municipality.

DPR FOR INTEGRATED DEVELOPMENT OF COASTAL HIGHWAY WITH CYCLE TRACK IN THIRUVANANTHAPURAM, KOLLAM AND ALAPPUZHA DISTRICTS





The Civil Engineering Department received funding from KSCSTE - National Transportation Planning and Research Center (NATPAC) to carry out traffic surveys such as traffic volume count studies at various intersections and mid block sections for the preparation of DPR. The traffic survey was conducted with a view for developing coastal roads and forming cycle tracks. Coastal Highways in Thiruvananthapuram, Kollam and Alappuzha districts were included in this project. Traffic survey of Thottapally, Valiyazheekal and Punnapra junctions in Alappuzha district, were carried out by our department. The project was led by Asst Prof. Midhun Mohan. Data collection was done using videographic method. The extraction of data by counting vehicles covering all turning movements classified by the type of vehicle during the specified duration at each identified point was conducted.

WORKSHOP

NATIONAL WORKSHOP ON ENVIRONMENTAL RESTORATION

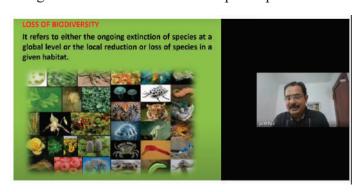
A two day National Workshop was conducted on 4th and 5th June 2021. The theme for the workshop was 'Environmental Restoration' in connection with 'World Environment Day'. Eminent speakers like Dr. Kurian Joseph (Professor of Environmental Engineering, Center for Environmental Studies, Anna University, Chennai),



Dr. Thara K.G (Former Member, State Disaster Management Authority and Head, Disaster Management Center, Government of Kerala), Dr. K. V. George (Sr. Principal Scientist, Air Pollution Control Division, NEERI, Nagpur), Dr. Jai M. Paul (Professor, M A College of Engineering, Kothamangalam) delivered lectures on diversified fields of Environment, Pollution and Climate Change.



The National Workshop was conducted in association with TEP Cell. There were more than 100 participants from different parts of India. The workshop provided an excellent opportunity for students and faculty member to interact with these speakers. The team effort of the organisers on planning and coordinating the event was widely acknowledged by the speakers, director, management of the institution and participants.



TECHNICAL TALKS

ADVANCEMENTS IN NON-DESTRUCTIVE TESTING AND ITS CERTIFICATIONS

The Department of Civil Engineering organized a technical talk for third year and final year students on 21st January 2021.



The session was handled by Mr. Vishnu Shaji and Mr. Niteesh Kumar, Academic Admin, Techshore Inspection Services, Kaloor. The objective of the talk was to create awareness about the opportunities of Non Destructive Testing in the private sector.

Non-destructive testing (NDT) is a testing and analysis technique used by industry to evaluate the properties of a material, component, structure or system for defects and discontinuities without causing damage to the original part. Through this session, our students learned about many internationally accredited NDT training programs to improve their technical skill and to expand their career potential.

WATER AND WASTE WATER MANAGEMENT AND IT'S OPPORTUNITIES



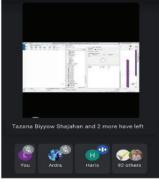
The technical talk on 'Water and Wastewater Management and its Opportunities' was conducted on 16th November 2021. It was organized by the Civil Engineering Department of KMEA and DELTA Water Management Training Centre for final year students. There were 5 speakers from DELTA training center to handle each session, 4 faculty and 70 students attended the programme.

WEBINARS

TEKLA STRUCTURAL DETAILING

The webinar on 'Tekla Structural Detailing' was hosted by the Department of Civil Engineering on 22nd April 2021, to make students aware of the importance of acquiring skills in latest softwares like Tekla. Tekla Structures is a Building Information Modeling software that is used to model structures that incorporate different kinds of building materials, including steel, concrete, timber and glass.





The one hour session was handled by Mr. Muhammed Haris P. M., Tekla Steel Detailer at C&S Designing & Engineering Group. The speaker emphasized on the improved productivity, profitability, and accuracy of Tekla's BIM software and its ability to create and manage 3D models for construction projects.

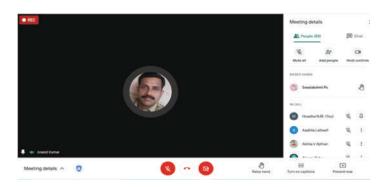
FUNDED RESEARCH PROJECTS -STRATEGIES AND CHALLENGES

A 'Webinar on Funded Research Projects Strategies and Challenges' was conducted on 24th April 2021 in Association with KRCC and TEP Cell. The eminent speaker for the session was Dr. G Madhu (Professor & Head, Division of Fire & Safety Engineering, Division of Chemical Engineering, CUSAT). The various elements of the research proposal, guidelines of writing research proposals were discussed. In the webinar, information regarding the funding agencies in India like AICTE Schemes, UGC, DST, etc were explained in detail. The faculty members of KMEA college actively participated in the event.



BUILDING A FAIRER, HEALTHIER AND SAFER WORLD

Association of Civil Engineering (ACE) organized a webinar on the Topic 'Building a Fairer, Healthier and Safer World' in connection to the World Day for Safety and Health at Work, on April 28th 2021, via Google Meet. The session was really inspiring and the speaker, Mr. K. S. Anandakumar, Fire and Rescue officer, Thrikkakara Fire Station, described the necessity and benefits of a fairer, healthier and safer world in the



coming years and about overcoming the pandemic situation. He also reminded about the speciality of the day and the responsibility of engineering students in the area of health and safety at work.

INDUSTRIAL ORIENTATION AND CAREER GUIDANCE



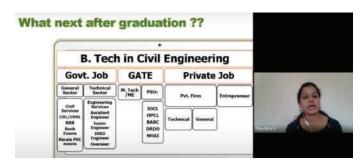
The webinar on 'Industrial Orientation and Career Guidance' was hosted by Armstech, a leading construction group on 21st May, 2021. The session was handled by Mr. Aravind B, Project Manager, Armstech Engineers Pvt Ltd. The speaker discussed career options in the diverse fields of Civil Engineering and the need for professionals to have a deep understanding of quality principles.

COMPUTATIONAL APPROACH IN STRUCTURAL ENGINEERING



The webinar on 'Computational Approach in Structural Engineering' was conducted on 22nd May 2021 by the Civil Engineering Department in association with TEP Cell. The session was handled by Dr. Hridya P, Research Associate, Indian Institute of Science, Banglore. About 101 participants, consisting of all the faculty members, final year students and M Tech students actively participated in the webinar. The various computational approaches in structural engineering such as the Finite Element method and Numerical methods of analysis were explained by the speaker.

CAREER OPENINGS FOR CIVIL ENGINEERS IN PUBLIC SECTOR



The webinar was hosted by the Department of Civil Engineering on 24th May 2021, to make students aware of the opportunities in various government sectors after completing their graduation in Civil Engineering.

The speaker Ms. Pavithra V, Corporate Relations Manager from Civilianz in association with ICI Trivandrum center, addressed the session. The session consisted of discussions about various opportunities for young graduates in general sector, technical sector and PSU's.

JOB ORIENTED SOFTWARE IN CIVIL ENGG. INDUSTRY

A webinar on 'Job Oriented Software in the Civil Engineering Industry' was conducted on 27th May, 2021 for final year civil engineering students. The aim of the webinar is to provide awareness on the wide opportunities in the industry and to guide them to choose

a career after graduation. The session was handled by Mr. Gigith George Emmatty, Sr. Faculty, Reliant Institute of Technology. About 60 final year students participated in the training.



PATHWAY TO KEAM



A webinar on "Pathway to KEAM registration" was organized by the Department of Civil Engineering for Higher Secondary School students on 13th June 2021. The resource person was H. Mansurudeen, Former Administrator, Entrance Help Desk. Around 87 plus two students attended the session. The session was highly informative and it gave a clear idea regarding the importance of the Entrance Exam, its benefits and the registration process.

RECENT TRENDS CONSTRUCTION **ENGINEERING AND MANAGEMENT**

An international webinar on 'Construction Engineering and Management' was conducted on 9th July 2021, by the Department of Civil Engineering in association with TEP Cell. The session was handled by Er. Yasir Ummer,



Structural Design Engineer, AMANA Steel Buildings and Contracting, UAE. A total of 87 participants, including, all the faculty members, pre-final and final year students actively participated in the webinar.

The speaker explained in detail about the latest trends and techniques in the present construction field and the importance of construction management in the industry.

TRENDSETTER KNOW BIM: THE **CONSTRUCTION INDUSTRY**

Association of Civil Engineering (ACE) under the Department of Civil Engineering organized a webinar on 'Know BIM: The Trendsetter of Construction Industry' by Mr. Midhun Das, BIM consultant (UAE), for the final year Civil Engineering students on 30th October 2021.

The session was really inspiring and information on how an intelligent model based process helps the professionals to plan. design, construct and manage buildings and infrastructure efficiently. The concept of BIM



from conceptual planning to final documentation stage and also the concept of digital twin was discussed.

INTERACTION ALUMNI TRAINING PROGRAMME ON OPEN STREET **MAPPING**



A hands-on training on Open Street Mapping was conducted for the students of the Civil Engineering Department, who volunteered to participate in the 'MAPATHON KERALAM' project. The training session was handled by Mr. Habeel P. S., an alumni of our department. OpenStreetMap is a free, editable map of the whole world that is being built by volunteers largely from scratch and released with an open-content license. The session was very informative and it enabled our students with the skills to perform mapping.

FDP ATTENDED FACULTY

BINDU SEBASTIAN

- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam
- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Advances in Physical and Numerical Modeling in Geotechnical and Geo-environmental Engineering, Musaliar College of Engineering & Technology, Pathanamthitta

SONI SYED

- Geo mechanics & Structures, LBS Institute of Technology for Women, Kasaragod
- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

JINU V. R

- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

FATHIMA S. THAIKUDIYIL

- Geo mechanics & Structures, LBS Institute of Technology for Women, Kasaragod
- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

SHABNA M. S

- Forensics in Structural and Geotechnical Engineering, AISAT, Kalamassery
- Geo mechanics & Structures, LBS Institute of Technology for Women, Kasaragod
- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

FAZNA NAZIM

- Geo mechanics & Structures, LBS Institute of Technology for Women, Kasaragod
- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam

- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade
- Geosynthetics for Ground Improvement, SCMS School of Engineering & Technology, Karukutty
- Research Training, MSME Technology Development Center-Agra

LAKSHMY E. G

- Transportation Geotechnics, LBS Institute of Technology for Women, Kasaragod
- Smart Cities Infrastructure & Sustainability, Indian Institute of Technology, Ropar

JILFA NAZAR

- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

MIDHUN MOHAN

- Forensics in Structural and Geotechnical Engineering, AISAT, Kalamassery
- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam

ASWATHY K. V

- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade

BENOY BENJAMIN

- Forensics in Structural and Geotechnical Engineering, AISAT, Kalamassery
- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Emerging Trends in Structural Health Monitoring Procedures, Toc H Institute of Science & Technology, Arakkunnam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade
- Recent Advances in Seismic and Wind Load Analysis of Structures, Mar Baselios College of Engineering & Technology, Thiruvananthapuram

SRUTHI VIJAYAKUMAR

- Sustainable Building Materials and Practices, MBITS, Kothamangalam
- Remote Sensing and GIS in Civil Engineering, Mar Baselios Christian College of Engineering (MBCCET), Peermade
- Geosynthetics for Ground Improvement, SCMS SOE, Karukutty

FACULTY ACHIEVEMENTS

- Ms. Lakshmy E. G. (Assistant Professor) enrolled for PhD Programme in APJ Abdul Kalam Technological University.
- An invited talk was delivered by Dr. Chithra V. S, at the 6th Indian International Conference on Air Quality Management (IICAQM 2021) jointly organized by IIT Madras, IIT Guwahati, University of Bath (UK), University of California, Riverside (USA), and UFZ Helmholtz Centre for Environmental Research (Germany) during 14-18 December 2021-Online (hosted by IIT Guwahati).
- An invited talk on 'Environmental Sustainability' was delivered by Asst Prof. Fazna Nazim, at Ilahia College of Arts and Science, Muvattupuzha, in connection with world earth day, 22nd April,2021.
- Dr. Chithra V. S chaired a session in National conference on Advances in Civil Engineering and Technology 2021 (NCACT'21), Mahaguru Institute of Technology, 24th September 2021

STUDENT ACHIEVEMENTS

- The innovative idea (Women and Child Protection App) of seventh semester B Tech students, Nanda B, Reshma V. R., Remzi Nazar, Sadhiq Ali A. M., was selected for the final round in Tech Fest 2021 organized by Kerala State Council for Science, Technology and Environment (KSCSTE).
- Fathimath Thasni A. K. of third semester won first prize in a poster design competition organized by MES Advanced Institute of Management and Technology, Marampilly in connection with international day for the elimination of violence against women.
- A final year project 'Household Waste Degradation using Effective Microorganisms' done by our students, M. Al Ameen, Ajini K. A., Fathima Sherin, Aiswarya Sudhan (2017-21 A- Batch), guided by Asst Prof. Fazna Nazim, has been shortlisted for the final round of IEEE and Genskill The Final Year Project Award 2021.
- Akhila M. S., of 5th semester B Tech Civil, was selected as a member of Ernakulam regional student coordinators team, in the State Level Volunteer Secretary Workshop, National Service Scheme.
- An article was published in 'The New Indian Express' newspaper, Kochi edition, appreciating the artistic skills and accomplishments of our student, Fathima Shehana of eighth semester B Tech, in the field of painting.

INTERNSHIPS

- Twelve students of seventh semester Civil Engineering, underwent an internship in Greater Cochin Development Authority (GCDA), Kochi, from 24/09/21 to 01/10/21.
- Nine students of seventh semester Civil Engg, underwent an internship in Tulsi developers, Kakkanad, from 4/10/2021 to 8/10/2021.
- Five students of seventh semester Civil Engg, underwent an internship in Velocity Skill lab, Edapally, from 24/09/21 to 09/10/21.
- Three students of seventh semester Civil Engg, underwent an internship in Kerala Warehousing Corporation, Ernakulam South, from 22/09/21 to 1/10/21.
- Twenty students from seventh and fifth semester Civil Engineering, underwent an internship conducted by NATPAC and carried out traffic surveys in three junctions in Alappuzha district, from 28/9/2021 to 1/10/2021.

PUBLICATIONS

BOOK CHAPTER

- Shiva Nagendra S.M., Chithra V. S. (2021) Indoor Air Quality. In: Shiva Nagendra S.M., Schlink U., Müller A., Khare M. (eds) Urban Air Quality Monitoring, Modelling and Human Exposure Assessment. Springer Transactions in Civil and Environmental Engineering. Springer, Singapore.
- Shiva Nagendra S.M., Schlink U., Müller A., Menon J.S., Chithra V. S. (2021) Personal Exposure and Health Risk Assessment. In: Shiva Nagendra S.M., Schlink U., Müller A., Khare M. (eds) Urban Air Quality Monitoring, Modelling and Human Exposure Assessment. Springer Transactions in Civil and Environmental Engineering. Springer, Singapore.

INTERNATIONAL JOURNAL

- T. B. Vishnu, Kh. Lakshman Singh. (2021) A study on the suitability of solid waste materials in pavement construction: A review. International Journal of Pavement Research and Technology. 14 (5) 625-637. DOI: 10.1007/s42947-020-0273-z.
- T. B. Vishnu, Kh. Lakshman Singh (2021) Experimental Investigation on Fatigue Characteristics of Asphalt Mixes with Different Automobile Waste Tyres as Modifiers. Iranian Journal of Science and Technology. 46 497-506 DOI: 10.1007/s40996-021-00588-w.

OUR MERITORIOUS STUDENTS

B. TECH





M. TECH



PLACEMENTS



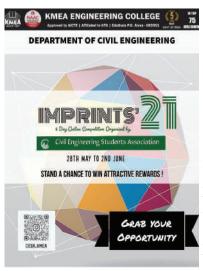
ENGINEER'S DAY CELEBRATION





The Department of Civil Engineering in association with TEP Cell, organized a Poster design competition in connection with Engineers Day, on 15th September 2021. The event invited entries from different schools and colleges. The theme of the Competition was "Engineering for a Healthy Planet". The winner of the competition was Mr. Muhammed Swalih E. P, BCA student from Al-Ameen College, Edathala.

IMPRINTS - ONLINE ARTS FESTIVAL



The Association of Civil Engineering organized a scintillating event 'IMPRINTS', a six days online competition for creative thoughts from 28th May to 2nd of June Students 2021. from various colleges participated in the events. Attractive awards E-certificates were provided to the winners of each event.

The following Competitions were conducted:-

- Day 1-Writing competition
- Day 2-Light Music Competition
- Day 3-Motivational Talk & Dance competition
- Day 4-Recitation & Instagram reels competition
- Day 5-Drawing & Photography competition
- Day 6-Poster Making & Troll Making competition

Students from various colleges participated in the events. Attractive awards and E-certificates were provided to the winners of each event.

ASSOCIATION DAY CELEBRATION – CIVIESTA





The Department of Civil Engineering organized an association day celebration, CIVIESTA '21 on 8th December 2021 at college auditorium. The event was organized as an opportunity for the students to showcase their technical skills and extracurricular talents. Dr. Rekha Lakshmanan, Vice Principal, KMEA Engineering College, officially inaugurated the event. The inauguration was followed by the final round of ASTHRA '21, a technical quiz competition. Eight teams competed in the final rounds of ASTHRA and a team consisting of Sulfikkar K. S, Shahabath Khan S. and Vishnu Venugopal of fifth semester won the first prize. The cultural events kicked off soon after the quiz competition. A variety of programs were performed by the students and staffs of the Civil Engg. Department.





FAREWELL

"Don't cry because it's over...Smile because it happened..."



A virtual farewell party was arranged by the juniors to their seniors "ma'Aas-Salaama" on 6th July 2021, via google meet. The session started with a welcome speech by juniors. Dr. Chithra V. S, HoD, Dept. of Civil Engineering and other senior faculty of the department felicitated and wished them success in their

future journey. The outgoing students also shared their fond memories in their campus life. The programme was colorful with songs and other entertainment programs. A beautiful video tribute was dedicated to the outgoing students, which covered their four years of life at college campus.

FIRST YEAR ORIENTATION - TRANSIRE 2021



The orientation programme for first year students 'Transire 2021' was held on 13th October 2021, in online mode. About 65 first

year students and all the faculty members from the department attended the session. Dr. Chithra V. S, Head of the Department, addressed the students with an inspiring speech about the activities of the department and videos were displayed, showing the highlights of the campus infrastructure and extra curricular activities.

An interactive session was also arranged, with of the some most accomplished alumni of our department. First year advisors also



interacted with the students on the rules and regulations of the college and about KTU curriculum.

MEMORANDUM OF UNDERSTANDING



DEPARTMENT IN NEWS



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MEMORABLE MOMENTS OF 2021

































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SUB EDITOR

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> STUDENT EDITORS



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