CAMBRIDGE INSTITUTE OF TECHNOLOGY

K.R. PURAM, BANGALORE – 560 036, Ph: 080-2561 8798 / 2561 8799

Fax: 080-2561 8789, email: principal@cambridge.edu.in

IQAC – Public Relations Committee

COLLATION OF NOVEMBER MONTH ACTIVITIES – 2021

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PUBLIC RELATIONS COMMITTEE

Department Representatives	*Name of Dept*
Prof. Sandhya V	*Basic Sciences*
Prof. Chandirika	*Civil*
Prof. Sharon Christina	*CSE*
Prof. Jenita Subash	*ECE*
Prof. Sathya	*EEE*
Prof. Mamatha	*ISE*
Prof. Basavaraj	*MBA*
Prof. Sunil Kumar	*MCA*
Ms. Selja, Content Writer	
Prof. J Vimala Devi – Focal	
This document is prepared based on the data provided by Department and Event Coordinators.	

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NEP 2020 – Multidisciplinary Education and Skill Entrepreneurship Development

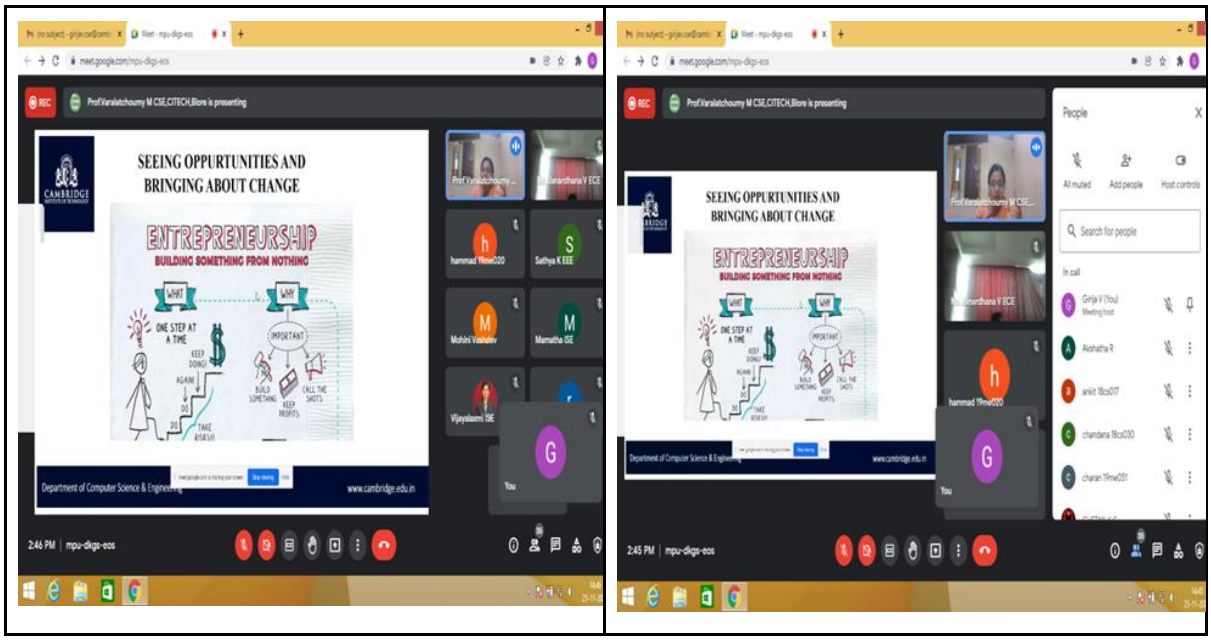
CIT organized a webinar based on NEP 2020 - 'Multidisciplinary Education and Skill Entrepreneurship Development' is the title the speakers discussed. It was held on 25th November 2021 between 2.30 PM to 3.30 PM. The speakers are Dr.Josephine Premkumar, Dept. of CSE, and Dr.Varalatchoumy, Dept of CSE.

Dr. Josephine Premkumar discussed Multidisciplinary Education in India. She shared that 'By 2030, one large multidisciplinary college should be there in every district'.

She explained that this is a unique educational approach that allows the students to learn and explore distinct subjects or curriculum from various disciplines. She also added a point that the government aims to get 100 percent education for all the students and zero school dropouts by 2030. She gave information about various curricula in academics. The session went into an interesting manner while explaining the plans and paths to approach the destiny of better education.

Dr. Varalatchoumy discussed Skill Entrepreneurship Development and its importance. She shared so much information on several topics like the Academic Bank of Credit which shall be established to store digitally the academic credits from various organizations.

Photos:



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The R&D department at CIT

The R&D department filed several patents so far in 2021. The list of patents filed is below.

Title	Status	Departments involved	Inventors
Preparation of aromatic polyester reduced graphene oxide composites using aliphatic amine hardeners	Application Filed on 26-Aug-21	Basic sciences	Dr.Ravishankar, Dr.Pushpalath and Dr. Hemakumar
Color quick response code with a choice of color based on background for maximum information density	Application Filed on 26-Aug-21	CSE/AIML	Dr.D.Antony Louis Piriyakumar
Detection of malignant breast tumors using novel MCFC algorithm and its stage using energy parameter	Application Filed on 9-Nov-21	CSE	Dr. Varalatchoumy et al.

in multiple scales and orientation			
Design and fabrication of twin extrusion using two robotic arms	Application Filed on 26-Aug-21	Mech + CSE	Prof.Sagar KG, Prof. Suresh A.L, Dr.D.Antony, Mallikarjuna Yadav, Gautam G Ranabhare, Manumohan M, Namratha Soumyapriya G U, Madhav Swaraj H
3d systolic array hardware accelerator for 2d dtcwt	Filed the provisional application on 26-mar-2021	ECE	Dr.Cyril Prasanna raj and Dr. Indumathi g
Complex wavelet phasor space reconstruction and feed-forward neural network pqd classifier for smart meters	Filed the Provisional Application on 26-Aug-2021	ECE	Dr.Cyril Prasanna Raj, Dr.Indumathi G, Prof. Roopa M, and Prof. Sakila D
Configurable dtcwt based multi-channel stackable transmultiplexer	Filed provisional application on 18-nov-2021	ECE	Dr. Cyril Prasanna raj p. Dr. Indumathi g. Dr. Girish Mrs. Jenitha subash

An apparatus and method for blood clot detection using a non-invasive method	Filed provisional application on 09-nov-2021	ECE	Dr. Cyril Prasanna raj p. Dr. Antony Dr. Ravishankar Mr. Shivapanchakashri Mrs. Soumya
Power quality event detection, classification, characterization, and compression using dtcwt subbands	Filed provisional application on 09-nov-2021	ECE	Dr. Cyril Prasanna raj p. Dr. Indumathi g. Mrs. Roopa Mrs. Shakila

The published patent applications are updated and can be accessed through the link by searching with the applicant's name as "Cambridge Institute of Technology and address as "Bengaluru". **Intellectual Property India (ipindiaservices.gov.in)**

Technology Fields

The Technology Fields are divided into 15 that are working in Research and Development at CIT. Those are listed under the R & D department.

Research Prototypes developed at CIT

The following are the prototypes achieved at CIT under the R & D department.

- Automatic sanitation liquid dispenser - CSE
- Automatic sanitation liquid sprayer - MCA
- Automatic rover with mobile control - MCA
- Tech support software for the hospital for Hearing Impaired - MCA
- Purchase automation software for CIT - MCA
- Ventilator - Mech
- Fumigator - Prof.Srinithi
- Autonomous fire extinguishing robot - ECE
- Autonomous fire extinguishing drone - ECE

Projects

Skycool cart, a project in CIT was awarded by Trane Technologies which is worth 17.7 lakh INR to Dr. D. Antony Louis Piriyakumar. The MBA department gave their active participation in the business survey. Two senior scientists, Dr. Jharna Mazumdar from DRDO and Dr. Shekar Mazumdar from NAL have joined us to guide us in the research areas of AI & ML, Robotics, and Computational Fluid Dynamics.

Kannada Rajyotsava Celebrations

Kannada Rajyotsava, also known as Karnataka Formation Day, was celebrated at Cambridge Institute of Technology on 27th November 2021. This is the day to celebrate and commemorate the unification of the Kannada-speaking regions led by Sri. Aluru Venkata Rao. The students and teaching fraternity had the privilege to witness and listen to the words of wisdom by two honorable chief guests of the day Sri. Prakash Belawadi, and Sri. R G Halli Nagaraj. Sri. Prakash Belawadi is an Indian theatre, film, television, and media personality while Sri. RG Halli Nagaraj is a writer, journalist who had begun book fare to cultivate reading as a hobby among youth. Sri. D K Mohan, Chairman- Cambridge Group of Institutions, Dr. Yogesh Velankar- Principal, Cambridge Institute of Technology, and Prof. Krishna Kumar- Registrar presided over the function.

The program began by offering floral tribute to Bhuvaneshwari Devi- Goddess of Karnataka by the chief guests, Chairman- Sri DK Mohan, Principal- Dr. Yogesh Velankar, and other dignitaries. This was followed by reciting Naada geethe by the gathering. The program began with a dance performance by the students. Prof. Preethi, Assistant Professor, Department of Information Science Engineering welcomed the august gathering to the program. Prof. Lokesh, Assistant Professor, Department of ECE introduced Sri. R G Halli Nagaraj to the gathering.

Sri. R G Halli Nagaraj congratulated the management for the celebration of Kannada Rajyotsava. Sri. Nagaraj, being an author himself and promoter of Kannada books, emphasized cultivating reading habits among youth. Reading of Kannada/ any vernacular language book promote and support the budding authors, while the reader avails benefits in many ways. The

chief guest Sri. Nagaraj also paid his tribute to actor Late Puneeth Rajkumar. He expressed his opinion of true sense, Kannada language can flourish more and more only by its usage and encourage Non- Kannadigas to learn Kannada whereby a sense of pride about the language is elevated to a greater extent.

Dr. Yogesh Velankar addressed the audience and wished them on the occasion of Kannada Rajyotsava. Prof. Hemakumar, Head of the Chemistry department introduced Sri. Prakash Belawadi to the gathering. Sri. Prakash Belawadi, at the outset, congratulated the cultural team for the wonderful celebrations at the college. He was overwhelmed to hear the decoration items prepared by the students were ecofriendly.

Sri. Belawadi shared a piece of information of interaction between Swami Vivekananda and Late Sri. Jamshed Tata. Later this conversation and idea had evolved into the construction of the Indian Institute of Science(IISc) a pioneer institute in India. Later, Sri. DK Mohan- the Chairman, addressed the audience and expressed his best wishes on the occasion. It was followed by a mesmerizing folk dance performance by the students which received a standing ovation from the guests and the audience. The second half of the program was dedicated to a performance by students and the distribution of certificates to the winners of various activities conducted for the teaching and student fraternity.

The celebrations in the college set positive vibes environment and a revamp to college memories which were on hold due to the pandemic.

Global Case Study Challenge - 2021

Cambridge Institute of Technology is happy that we are also part of the Global Case Study Challenge. We are the only institution from India that took part in this event. The Global Case Study Challenge is a real intercultural and virtual event for students, which provides an invaluable experience in their private and professional lives.

More than 800 students from 22 universities across the globe along with their professors and lecturers are participating and gaining experience about Collaboration Online International Learning and in a virtual exchange project in 2021.https://www.cambridge.edu.in/gcsc

The GCSC program is a ten-week program from October 4th – December 10th, 2021. Cambridge Institute of Technology had a collaborative training session with The Hague University of Applied Sciences. The preparation course started on 8th September 2021. The course was for a month every Wednesday from 1.30 pm to 3.30 pm IST. The topics covered were Intercultural diversity, Leadership, Understanding yourself, and Case Studies.

The coordinators were Mohini Vashdev, Dr. Aruna, Dr. Suma, Vimala, Sanjana, Soumya, and Vijayalaxmi.

Department of CSE – Pursuits

INSYNC ACTIVITY

The Department of CSE arranged the event on December 01, 2021. The event is divided into two webinars named 'Basics of AI & ML' and 'Basics of NS2 tool'.

Basics of AI & ML

The webinar was organized on December 1st, 2021. The gathering was welcomed by Dr. Shashikumar, Head of the Computer Science Department. The participants of the program were 3rd sem CSE students. The session started with the introduction of Data Mining and its importance in decision support systems. Practical applications in the field were highlighted and its transition to machine learning was discussed. The session also covered the basics of machine learning, giving a broad idea of the different types of problems powered by AI and ML.

The speaker gave an idea about the implementation of solutions to these problems using practical machine learning algorithms. The students were presented with certain use-cases and were asked to identify the type of learning problem and discuss the use-cases. The talk was well accepted and appreciated by the students.

Basics of NS2 tool

The webinar was organized on December 1st, 2021. The gathering was welcomed by Coordinators of the Department of Computer Science. The participants of the program were 5th sem CSE students. The session started with the introduction of simulation, network simulators, and the procedure to install NS-2. The session was continued by giving details on the types of files used in NS-2 and descriptions of the fields.

The speakers gave an idea about setting up a simulation of three-node point-to-point topology and finding dropped packets. The session ended by introducing NSG(a script generator tool for NS-2), installation of NSG, and setting up three-node topologies using NSG. Overall, the program was well applauded by the participants.

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The total number of participants from 3rd semester CSE was 158 and from 5th sem, CSE was 120.

Prof. Varalatchomy and Prof. Geetha P were the speakers of the event and Prof. Vasantha and Prof. Shilpa V were Coordinators for the 3rd-semester students. The event in charge for the 5th-semester students were Prof. Subhashini and Prof. Shilpa V and the coordinators were Prof. Sharon and Prof. Ganga.

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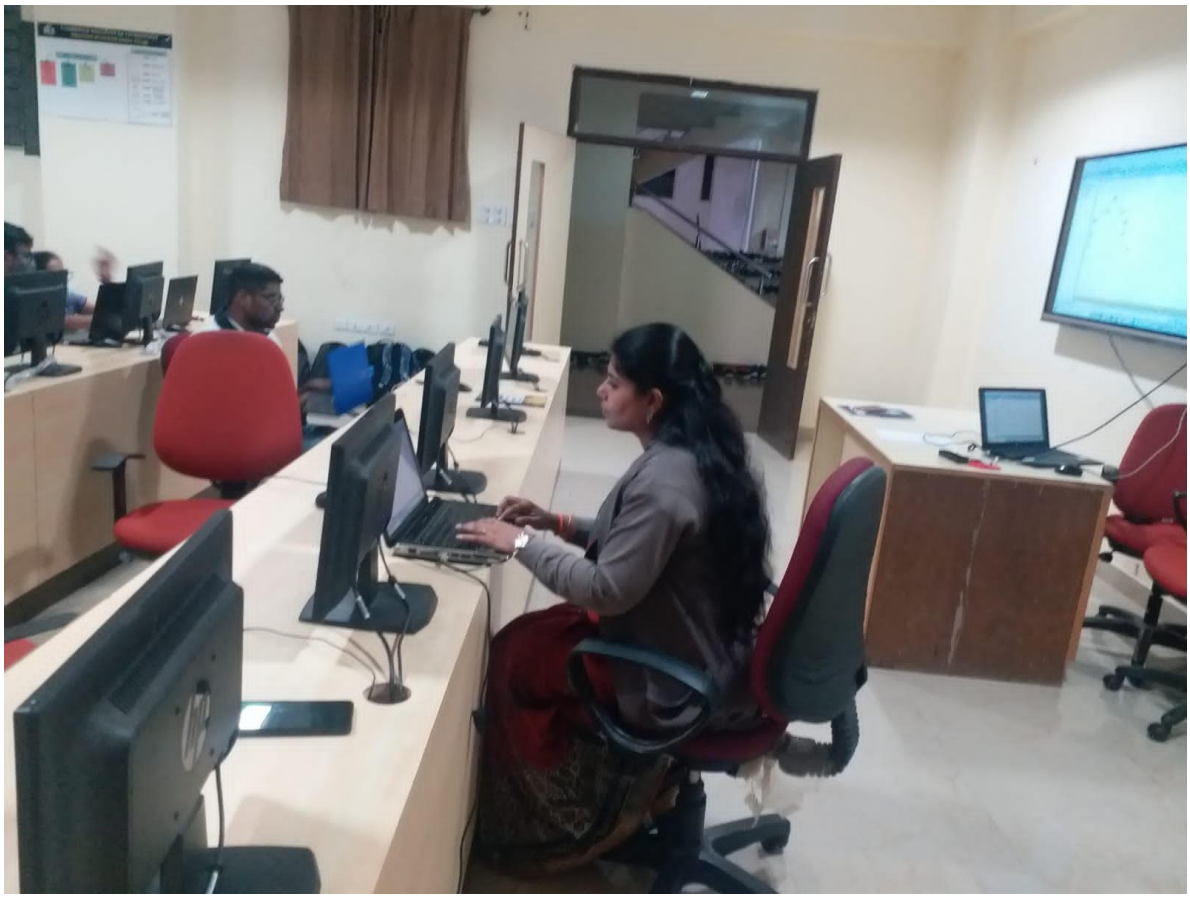

Another INSYNC ACTIVITY

A set of webinars were organized for the 3rd and 5th semester CSE students about two different topics *Learning C through Critical Thinking* and *Artificial Intelligence and its Applications* on November 24th, 2021.

Learning C through critical thinking

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The activity was organized on 24th November 2021. The venue was in CSE labs, The participants of the program were 3rd sem CSE students. The session started with the instructions of the activity by Prof.Yashaswini.S. The participants were given a set of 5 questions based on C programming, and the activity was to solve the given problems by using C programming through critical thinking. The questions contained debugging, matching the following, filling in the blanks of the code snippets, etc. This activity helped the students to input their knowledge on C and were able to solve the problems. The total number of participants in 3rd Sem CSE students was 125.

Event In-Charge 3rd Sem: Prof. Yashaswini
Coordinators 3rd Sem: Prof. Sharon and Prof. Ganga

Artificial Intelligence (AI) & its Applications:

The webinar was organized on 24th November 2021. The gathering was Welcomed by Dr. Shashikumar, Head, and Department of Computer Science. The participants of the program were 5th sem CSE students. The session started with the introduction of Intelligent systems, Applications, and challenges of using intelligent systems. The session was continued by giving details on AI and its applications in various areas. The speaker also mentioned the importance of machine learning, deep learning, and natural language processing in day-to-day life activities. The speaker also gave an idea about the implementation of AI, and what AI still cannot do in comparison with real-world scenarios. The session ended by assigning a task to the students based on the video presented on Artificial Intelligence. Overall, the program was well appreciated by the participants. The total number of participants in the 5th Sem CSE was 148.

Speaker: Prof. Manjunath
Coordinators: Prof. Praveen Kumar and Prof. Reshma D Souza

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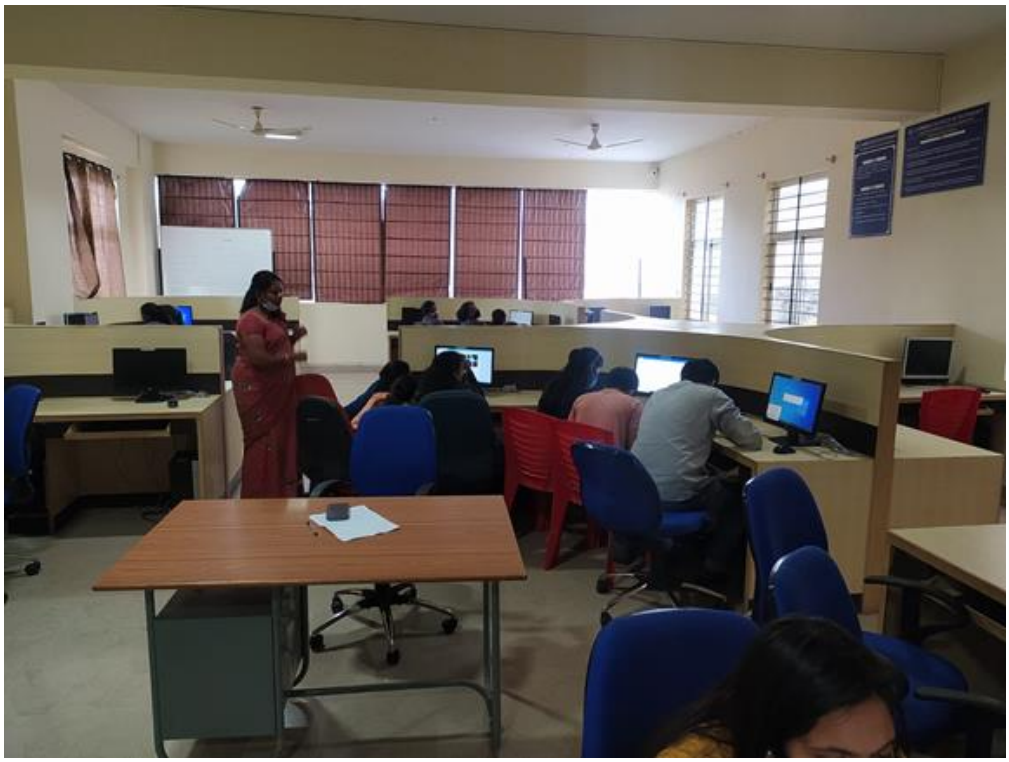

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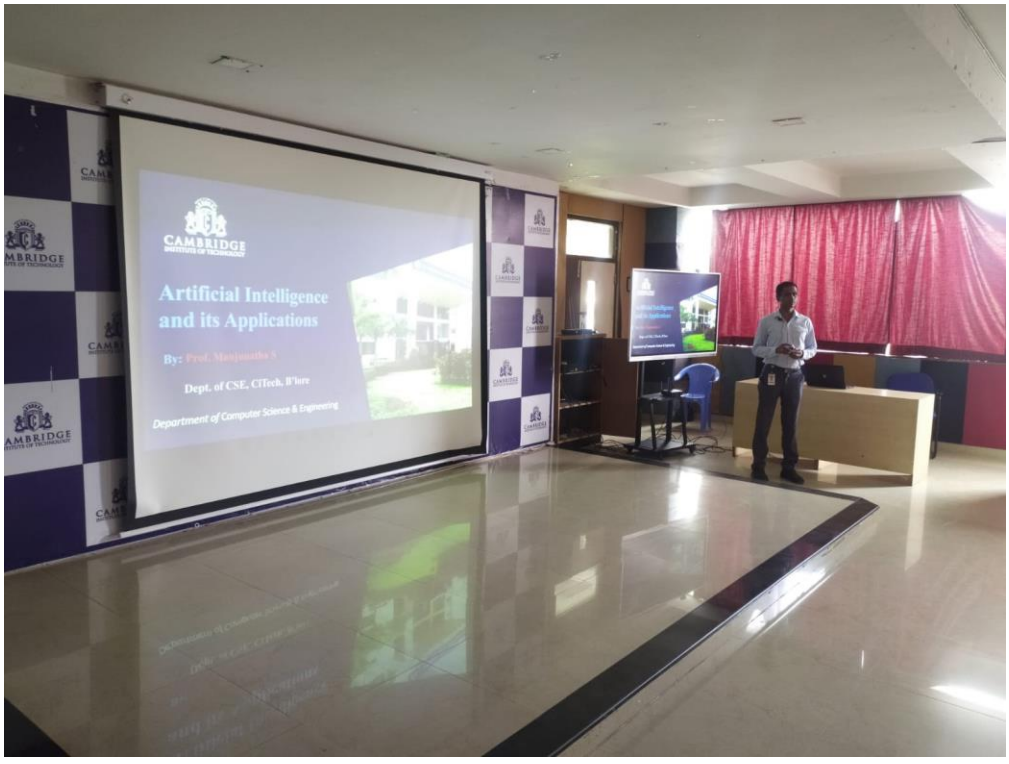

Department of ISE – Events

Collage Event under the aegis of Forum - FEISTA

The Department of ISE conducted a collage event for all the students. The topic given to them was to "*Describe Yourself"*. The participants got paper cuttings from newspapers and magazines. They presented their ideas.

An ISR Activity – an initiative from the departments of CSE and ISE

This event is to help the needy and was organized by the Department of CSE and ISE. All students and faculty members of CSE and ISE participated in the event. Helping the needy by donating groceries and other utilities to the children of *Mother Teresa* orphanage. Groceries were collected in large number, and it was given to the orphanage.

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Presentation on Accelerating your entrepreneurship wish

Dr. P Cyril Prasanna Raj presented a presentation on the topic *Accelerating your Entrepreneurship wish* on 29th October 2021. The event was organized by the Department of ISE. The timings are from 2.30 PM to 4.30 PM. Participants are students from 3, 5, and 7 semesters.

The speaker educated the students about the importance of entrepreneurship and ways to achieve it. He spoke about the need for leadership and the qualities of good leadership. The need for leadership in entrepreneurship was also highlighted using various examples.

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Presentation on Application of AI & ML in IT Industry

The Speaker for this short event is Dr. Antony Louis Piriya Kumar, Dean of the R&D department, CIT. The application of AI & ML in the IT Industry is the topic briefly introduced to the students from 3, 5, and 7 semesters on 22nd October 2021 from 2.30 PM to 4.20 PM.

The speaker started the session with a brief introduction to AI and ML, their importance in the changing world. He highlighted the applications of AI in various fields that are used in real-world applications. The webinar aimed at providing an idea to students on project ideas with AI Technology.

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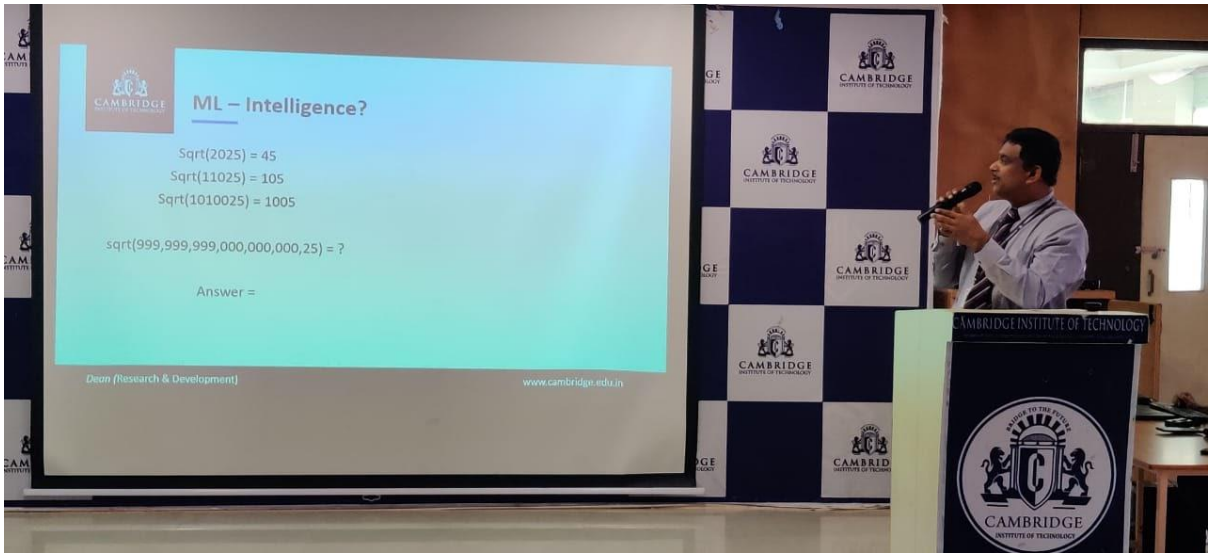

Department of ECE - Activities

R&D department - ECE

ECE department's Research and Development aims to develop innovative solutions to power dedication. The ECE department students and faculties focus not only on carrying out the fundamental research but also applications. The R&D activities, Project proposals, Patents filed are listed below:

1. Three DRDO project proposals on Radar design, FPGA, Hyperspectral imaging, and AI.
2. MoUs signed
    - Banashree Renewable Energy Systems
    - Jaramara Dynamics Private Limited

3. First design patent filed by Ms. Soumya, AP of Department of ECE, Cambridge Institute of Technology. It is a design patent and named as Textile Piece Goods, Artificial and Natural Sheet material (Face mask). The date of filing is 5th October 2021.

Innovation: MASK strap reduces stress on ear lobes for people with ear disorders.

Societal Relevance: Currently available masks in the market are for normal people with mask holders made of elastic strings, stressing on ear lobes. People with protruding ears further face more discomfort as the mask doesn't fit on their ears. The present innovation is on the face mask with an elastic band to avoid discomfort while wearing the mask.

Market Opportunity: About 5% of the population worldwide has protruding ears.

Photo of the design pattern:

Project Idea Harvesting Event

The ECE department organized a “Project Idea Harvesting Event” for the faculty members of ECE. The event was organized by Dr.Cyril Prasanna Raj P. The main objective of organizing

this event was to Conduct an Idea Competition and to encourage observation skills. During this event, various ideas were captured and reviewed.

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Project Problem Identification and Research Avenues

The ECE department organized a "Project Problem Identification and Research Avenues" for the 5th and 7th semester ECE students on 23rd November 2021. The event was presented by Dr.Cyril Prasanna Raj P. The main objective of this event was to convey to students the importance of the project & practical implementations of innovative ideas.

The aim of organizing this event is to encourage students to come up with complete solutions that address different dimensions of the problem. About 200 students & 68 teams were registered and they actively participated in this event. The participants were motivated by the rich experience & guidance of Chief Guest & Guest of Honor. They carefully monitored the projects & gave their valuable suggestions for improvement to the students.

Sanctioned Projects

1. VTU Project in association with MSRIT and NIIT

The Project title is *Customized Reconfigurable for Image/Video compression based on Deep Learning Algorithm for Hyperspectral imaging.* The Authors of this project is Dr.Cyril Prasanna Raj. P from CIT and Dr.Nagabooshan from MSRIT

2.VTU student Project

The title of the project is Agrobot - Agricultural Surveillance Robot and the students who have done this project are Poornima M, Meena N, Kalpitha B, Navyashree B.

Department of EEE – Activities

Seminar on "Career guidance and Higher studies"

On 13th November 2021, the Department of Electrical & Electronics Engineering organized a seminar on "Career guidance and Higher studies" for students of the 7th & 5th semesters. The total number of participants was 60.

The resource person was Ms.Sushma Sankanagoudar & Ms.Aishwarya R Shepur. Ms.Sushma Sankanagoudar was a Network Security Engineer at SonicWall Inc, Bangalore. She has 3 years of experience with extensive knowledge of technology and security systems. Ms.Aishwarya R Shepur got her bachelor's degree in Electrical Engineering from Cambridge Institute of Technology, Bengaluru. She was part of the team project in specializing the product with Byju's India.

The session started at 02.30 pm with a welcome address continued with a brief introduction of the speaker by Mrs.Aruna Y.V., Assistant Professor. The speaker gave a basic understanding of the career opportunities and technical revolution in Electrical Engineering. Speaker had an elaborated discussion on higher studies opportunities across various countries in the world. Few live examples in day-to-day life were also highlighted by them. Mrs.Aruna Y.V. presented a vote of thanks at the end of the session.

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Webinar on "Training on Design Innovative Model for Electric Vehicles"

On 11th November 2021, the Department of Electrical & Electronics Engineering organized a webinar on *Training on Design Innovative Model for Electric Vehicles* for students of the 5th semester. The total number of participants was 51.

The resource person was Mr. Amos, Research Engineer – R&D Design engineer, Sanarys Pvt. ltd, Bangalore. He has a rich experience of 6 years in mechanical design engineering with extensive knowledge and also experience in technical design direction on mechanical products, machine parts, and components.

Mr. Amos got his bachelor's degree in Mechanical Engineering from Anna University affiliated, with Tamil Nadu. He was part of the team project in designing the new device for monitoring the pressure, the temperature of fluids in ISO tanks. Developed the CAD model of ISO tank t11 Using NX CAD and Solid works.

The session started at 02.30 pm with a welcome address continued with a brief introduction of the speaker by Mrs.Sujatha B.G., Associate Professor. The speaker gave a basic understanding of the modeling of Electric vehicles, their importance, and the technical revolution in the world. Speaker had an elaborated discussion on modeling using CAD software tools. Few live examples in day-to-day life were also highlighted by him using the software. Mrs.Sujatha B.G. presented a vote of thanks at the end of the session.

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Department of Civil Engineering – Activities

***PadaBandha* competition on the occasion of Kannada Rajyotsava celebrations**

The Department of Civil organized a competition for the Faculties of Cambridge Institute of Technology on November 11th, 2021 at 2.45 PM.

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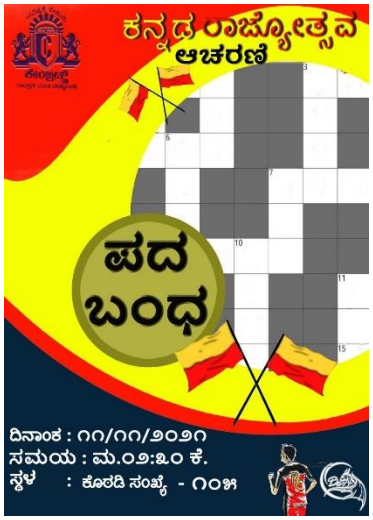
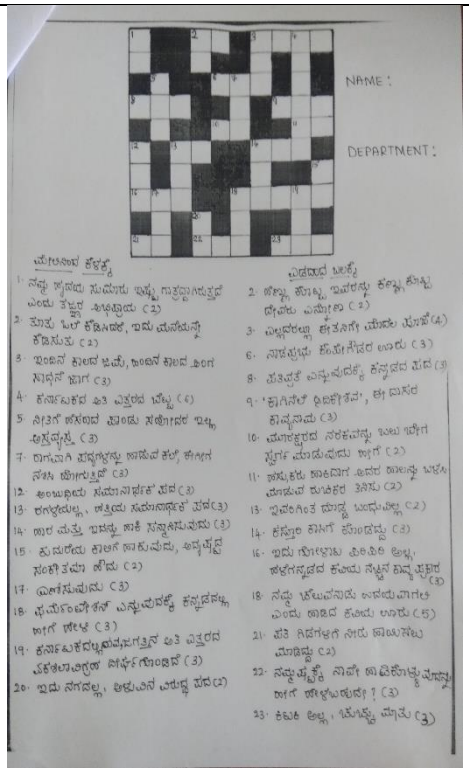


This is to encourage Faculties of CIT to take part in Kannada Rajyotsava Celebration and to stimulate the interest towards learning Kannada and knowing Karnataka. A crossword puzzle solving competition called “PadaBandha” was organized by the Civil engineering department exclusively for the Faculty of Cambridge Institute of Technology. The staff participation was 14 in the count. The entries for the competition were pre-registered. The event started by welcoming the participants by the organizers of the event. The guidelines and judging criteria were briefed by Prof Harini H N of the Civil Engineering Department. Dr. Shankar B.S, HoD of Civil Engineering, was the Judge of the event. Ms. Ashwini and Ms. Brunda of 7th sem Civil Engineering monitored the whole event. At the end of the event, the solution of the ‘PadaBandha’ was disclosed to the participants and the winners were also announced.



Department of AI&ML - Events

Webinar on "Uttarakhand Spiritual Sovereign of India"

The Department of AI&ML and the Department of Basic Sciences conducted a webinar on "Uttarakhand Spiritual Sovereign of India" on November 15th, 2021.

Cambridge Institute of Technology has planned three different EBSB activities and prepared a calendar for the same for the year 2021-2022. The first activity was a webinar on the topic *Uttarakhand-Spiritual Sovereign of India* by Prof. Sunila Kumar K N, Dept. of MCA.

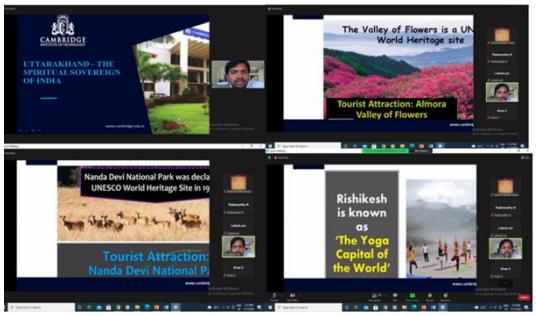
The objective of the webinar was shared by Prof. Sunil Kumar K N, Assistant Professor of the Department of MCA. The objectives were as follows:

- To celebrate the Unity in Diversity of our Nation and to maintain and strengthen the fabric of traditionally existing emotional bonds between the people of our Country;

- To promote the spirit of national integration through a deep and structured engagement between all Indian States and Union Territories through a year-long planned engagement between States.
- To showcase the rich heritage and culture, customs and traditions of either State for enabling people to understand and appreciate the diversity that is India, thus fostering a sense of common identity
- To establish long-term engagements and,
- To create an environment that promotes learning between States by sharing best practices and experiences.

Students interacted very well with the resource person. This program inspired students to become prepared for the upcoming events on the EBSB schedule. After the webinar, the majority of the students stated their readiness to participate in the above-mentioned objectives. Prof. Sunil Kumar had enthralled the students by outlining the most crucial features of Uttarakhand and Karnataka. It's also a first step toward implementing NEP-2020 for the academic year 2021-2022, as stated in the circular VTU/PS/2021-22/2852 dated September 30, 2021.

Photos:

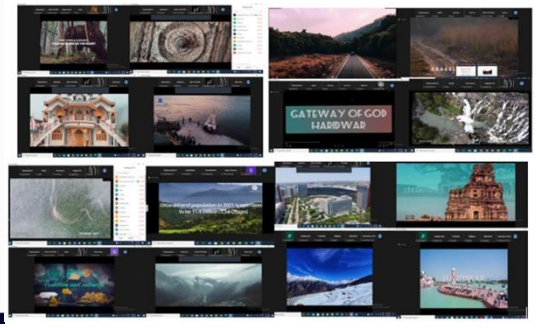


Virtual Tour of paired states Karnataka and Uttarakhand

A webinar was organized on Comparative study between Karnataka and Uttarakhand and a Virtual tour was organized. The date on which this event happened was November 29th, 2021. In continuation to the events of Ek Bharat Shresht Bharat for first-year students.

The total number of students who took part was 44 and they created a video about the tradition, culture, tourism attractions, resources, population, and geography of the EBSB paired states of Uttarakhand and Karnataka. All of the virtual tour videos created by students were exceptional, their hard work, use of technology, and creativity were all evident in their presentations.

The virtual tour was organized by Prof. Padmavathy from the Department of Chemistry, Prof. Diwakar Karadi from the Department of MCA, and Prof. Sreevidya Raman from the Department of Civil Engineering. About 130 first-year engineering and first-year MCA students witnessed the presentation.



Department of MBA - Events

A Visit to the Akshaya Patra Foundation - an Experiential Learning

Akshaya Patra – Industrial Visit organized by MBA department, Cambridge Institute of technology on 25th and 26th of November for the purpose of making students learn about the operations of the kitchen which prepares food for 66000 thousand school children at a time every day.

"No child in India Shall be deprived of education because of hunger". The Akshaya patra foundation is a mid-day meal for the children attending government-run schools in India.

The journey of the Industrial visit started at 9:00 am in morning from the campus and reached the destination at 11:00 am. A guide from the Akshaya Patra Foundations was co-ordinating our visit. Firstly, we entered a seminar hall where we all were informed about the agenda of

the day, there we all got a theoretical idea about the Akshaya Patra. The plan for the day was to first visit the temple and then visit the kitchen of Akshaya Patra. From the seminar hall, we visited the Narasimha Swamy temple and the Radha Krishna temple of Iskcon.

Later we reached the main place i.e.; the kitchen of Akshaya Patra, we all were given the head caps as a precautionary measure before entering the cooking area. Now we had Mr. Ranjith Managing head of the kitchen as a guide in the kitchen. There we witnessed the steam cooking vessels. It was a huge vessel where a single vessel can feed 2000 children at a time. Then there was a sambar section which was connected with a metal pipe for easy transfer of liquids to their final destination. Almost 66000 children's food is prepared within 5 hours. There are around 140 people who help in cooking. Each and every batch after cooking will be tested to maintain hygiene and safety. The food is prepared at 180-degree temperature to maintain its hotness till it reaches the children. Vegetables are tested and cleaned in three steps, i.e.; cleaning in normal water, dipping the vegetables in chlorine water for about 5 minutes to remove any microbial present in it, then again washing it in normal water.

Once the food is cooked it is packed in insulated vessels to avoid any microbial contamination and so that students can be fed hot and delicious food. There are 4 kitchens that serve more than 2 lakh students in Bangalore and Akshaya Patra serves about 19 million students every day throughout India. Later we finished the visit of a kitchen all had lunch and assembled back in the seminar hall for vote of thanks. We left the place at 2:30 and reached back to the campus at 4:00 pm.

The industrial visit had a piece of great practical knowledge about the operations management of the biggest kitchen.

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CAMBRIDGE INSTITUTE OF TECHNOLOGY

K.R. PURAM, BANGALORE – 560 036, Ph: 080-2561 8798 / 2561 8799

Fax: 080-2561 8789, email: principal@cambridge.edu.in

IQAC – Public Relations Committee

**********End of November Month Report**********