CAMBRIDGE INSTITUTE OF TECHNOLOGY

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IQAC – Public Relations Committee

COLLATION OF SEPTEMBER MONTH ACTIVITIES - 2021

Event: Project Exhibition 2021

On Wednesday, 4th August, 2021, ***the department of ECE*** conducted a Project Exhibition aiming to provide a scientific forum to all the final year ECE students to enable the exchange of knowledge. The students of CIT utilized the platform to unleash their full potential and showcased innovative projects developed in the final year of college. Aradhiya, Silicon Micro System, Bangalore, Abhishek, Patent Attorney, Bangalore and Dr.Sashi kumar X, Director, Agricultural science, Bangalore, were the three chief guests of the event.

The inauguration of the project exhibition occurred in the presence of Shri. D K Mohan, the Chairman and Mr. Nithin Mohan, the CEO, of Cambridge Group of Institutions. The principal of Cambridge Institute of Technology, Dr. Yogesh Velankar also graced the occasion with his presence.

Dr.Indumathi, the HOD of the ECE department, formally welcomed the gathering. Shri. D K Mohan in his motivational speech emphasized on the importance of learning new technologies and tools for the students. Dr. Yogesh Velankar shared his valuable knowledge among the students with a focus on the importance of project making.

The students were motivated to solve industry related problems along with the opportunity to demonstrate their learning experience. All the final year ECE students took part in the event which successfully boosted their confidence. The winners of the project exhibition 2021were announced and rewarded as the event came to an end. Darshana S.M., Nikitha L and Soundarya C.S. won the Best Overall Excellence project award in the category Sign Language and Vocalizer for mute people, among several others.

The Management, Principal, HOD and the faculty members of ECE wholeheartedly congratulated Sahana Victor CV, M L Vaishnavi, Satyam Raj and Kishor Kumar R. for their finest Academic Performances in 2021.

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Event: A short term training program on 'Cyber Security and Block chain'

A short-term training program was organized by ***the department of Computer Science & Engineering*** on 'Cyber Security and Block chain' was held from 23rd to 26th August 2021. The event sponsored by AICTE was open to faculty members of all AICTE approved engineering and polytechnic institutions. The event limited to 40 participants was conducted offline in the CIT campus. The primary aim of the event was to introduce our student crowd to the concepts of cyber security and block chain. They need to be familiarized with the different attacks and vulnerabilities in cyber space.

The chief speakers of the event, Hemanth Surya, Pranava Rao & Subhash, shared insights about different cyber-attacks and explained the importance of cyber security in all domains. They also introduced the students to various techniques and available tools.

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Event: 75th Independence Day Celebration

Every citizen stands with pride and feels overwhelmed as our country is witnessing its 75th year of Independence on August 15th 2021. This year is observed as 'Azadi ka Amrit Mahotsav' an initiative of the Government of India to celebrate and commemorate 75 years of Independence of progressive India and the glorious history of its people, culture and achievements.

Cambridge Institute of Technology also observed the Independence Day celebrations with zeal and patriotism. The program presided by Sri. D. K. Mohan, Chairman, Cambridge Group of Institutions, Principal Dr. Yogesh Velankar and Vice Principal Dr. Shashi Kumar, commenced at 10am.

The program began as Sri. D K Mohan hoisted the Indian flag, addressed the faculty, student fraternity and wished them on the occasion. Dr. Yogesh Velankar briefed about the importance of the day. Prof. Aravind. H. R, Assistant Professor, Department of Mathematics, spoke to the audience about the beginning of the struggle for freedom movement.

The program witnessed participation by faculty and students in large numbers. As per the VTU circular dated, Friday 13th August 2021, Cambridge Institute of Technology, observed the below mentioned events.

a. A visit to places of Historical significance

The Lion's Club of Cambridge Professionals, Bangalore, organized a student visit to places of Historical significance in the city. The students visited Bannappa park in cubbonpate that has witnessed numerous protests and satyagrahas against the British colonists. This place used to be popular among people in those times to gather plan and begin long protests and marches. Bannappa Park today has a small war memorial that honors our freedom fighters who gave up their lives for the nation's freedom.

The next place of visit was the Freedom Park located in the central district of the city of Bangalore. A part of the park has been specifically allotted for protests. When a state of emergency was proclaimed in India in the year 1975, several leaders were arrested and jailed from this venue. This place has also hosted the India Against corruption (IAC) movement and supported indefinite fast for governmental action in the enactment of the Lok pal bill.

b. Cycle Rally

The Cambridge Institute of Technology organized a cycle rally for young students. The enthusiastic participants had tied boards with slogans on Swachch Bharat to their cycles. This rally was conducted to create awareness about the need for cleanliness. The motive of the rally was served as students participated in the event with high spirit and great zeal.

c. Webinar on India's Freedom Struggle

A virtual webinar was organised at CIT to cherish and honour the sacrifice made by the various freedom fighters. Speakers of the webinar were Aravind H R, Assistant Professor, Department of Mathematics, Sunil Kumar, Assistant Professor, Department of MCA, Punith Kumar, professor, Department of Mechnical Engineering and Ms. Devi Priya, Student, Department of Electronics and Communication Engineering.

The speakers narrated various incidents that occurred during the freedom struggle. Each speaker pointed out the sacrifice of our brave leaders and their freedom fight that encompassed from different perspectives. The long struggle had crossed the barriers of caste, creed, societal status and financial abilities. With the motive to free India from the hold of British rule, the strong sense of patriotism made lakhs of people across the country to unite and join hands in the journey of freedom fight.

The path laid by Mahathma Gandhi followed non-violence while the young blooded revolutionary heroes traversed a different approach to attain freedom. Also, there are many

unsung heroes, who are lost in history. The webinar made an honest attempt to pay tribute to all of those gallant warriors.

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Event: Theme based Webinar

To mark the one-year completion of Transformative reforms under National Education Policy (NEP)-2020, a theme-based webinar and several other activities were conducted by the department of Information Science Engineering under the guidance of the Principal, Dr. Yogesh Velankar from 30th July to 10th August 2021. The event also aimed at spreading awareness about NEP 2020.

The National Education Policy (NEP) 2020 is a transformational and empowering policy. Many of the countries in the world are looking at it with great enthusiasm & are likely to follow suit. Honorable Prime Minister of India has been constantly taking the nation forward towards it.

Day one of the event:

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Prof. Sushma B, Dept. of MBA and Prof. Preethi S, Dept. of ISE, were the key speakers of the event based on the theme, Equity and Inclusion. About 60 students participated in the event which began with gaining an understanding of NEP 2020. To shed light on the theme of the program, equity in terms of gender and inclusion of SDG's were discussed with the audience with some examples and videos.

Prof. Preethi S explained that, "Equity is about creating fair access, opportunity, and advancement for all those different people. Inclusion is the extent to which various team members, employees, and other people feel a sense of belonging and value within a given organizational setting." She added that, "Inclusion is one of the most widely studied topics in the teaching and learning process in the educational field."

She stated a Chinese proverb, "Tell me and I forget, teach me and I remember, involve me and I learn" and pointed out that, "India has always placed education at the centre of its development agenda and with bridging the gender, social, regional gaps with community participation it will raise the spirits towards equal opportunities to all ensuring equity in this policy."

Day two of the event:

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The second day of the event was based on the theme, Multidisciplinary & Holistic Education. The speakers of the event, Professors Dr. Cyril Prasanna, & Shakeela from the Dept. of ECE, spoke about imaginative & flexible curriculum for UG &PG structure along with its formulation & its challenges. Over more than 40 students participated in the informative event.

Day three of the event:

Approximately 45 students participated in the event on day 3 which underlined the theme, Skill, Entrepreneurship Development & Employability: Challenges and Opportunities. The chief speakers of the event were Dr. Shankar S Professor, Mechanical Dept and Prof. Usha Rani, Director, TTH. In the beginning of the session, Dr. Shankar S Professor discussed about the basics of Entrepreneurship with the audience. He further highlighted the challenges in this field. He mentioned that the qualities like passion, vision & self-confidence are a must to become a good entrepreneur.

Prof. Usha Rani covered the topic of Employability: challenges and opportunities. The speaker gave information about job opportunities and the skills required for a particular person to get a good job. She gave information about various topics such as IT firm's anatomization, student's skills, vocational education etc. She stated that, based on the opportunities, the education

system also needs to adopt certain changes like Academia skill gap, multiple entry Beginner to Professional challenges, availability of trainers and many others.

Day four of the event:

The fourth day was focused on the 'Effect of NEP on Youth Empowerment and Sports Development'. The honourable chief speakers, Dr. K Satyanarayan Reddy, Professor & HOD and Dr. Basavaraju, from the Dept. of ECE, initiated with speaking about the ancient education system where yoga, ayurveda, mathematics and science were given importance. Dr. K Satyanarayan Reddy stressed on liberal arts approach in higher education, focus on quality research facilitating transformation of the education system. He highlighted the importance of adult education which leads to life skills.

Outlining the topic of Sports Development, Dr. Basavaraju mentioned that, sports are integral part of student's growth and development. He expressed that sports help in the betterment of mental health and physical fitness. He highlighted the importance of sports in the overall personality development of an individual and the boost in confidence.

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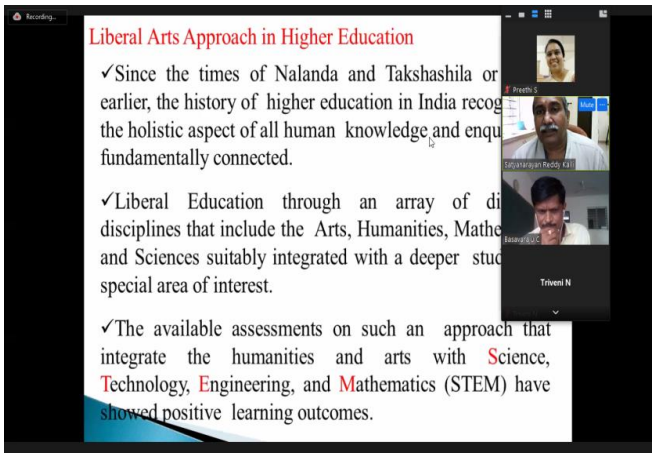

Day five of the event:

Prof. Mamatha V from the Dept. of Mathematics was the key speaker of the event on day five which concentrated on the topic, 'Indian Knowledge System, Languages, Arts and Culture'. She talked about how today's India is delivering education but lacking to enlighten about its value. She spoke about the necessity to emphasize on the moral and ethical values in par with education. She added that, the lack of pride and patriotism among the youth is a hindrance to the unity of our country. "Non-loyal educators are burden to the nation", she said. She explained that Indian Knowledge system, language, art and culture has been introduced in our National education policy because the modern graduates are unable to cultivate Knowledge and good wiliness on indanness in today's education system.

Gurukula system, Nalanda University, Takshashila education system were all discussed in detail during the webinar. Under AICTE, topics related to IKS are Art, Music, Dance Drama, Astronomy, Science and Technology, Life sciences, Health care, Environment and natural sciences, Veda, Vedanga, Yoga, Law, Upanishads, Economics, Social sciences, Psychology, Philosophy, Management, Linguistics, Oral traditions of India, Sanskrit, Prakrit. The audience were told that, 14 engineering colleges of 8 states are going to impart education in 5 Indian languages. Apparently, a tool has been developed for translating engineering course in 11 languages. The Indian sign language has been accorded the status of language subject. For better understanding of the audience, the 8th semester students, Nikitha and team demonstrated a similar project.

The event came to an end after Prof Mangala K B, Dept. of CSE, conducted a painting activity for the students.

Day six of the event:

Three topics were covered on day six by three different speakers. Dr. Indumathi G, Professor, & Head, ECE Dept, held a discussion on the topic, 'Accreditation processes'. Some of the major points outlined in the session include, (1) Infra Structure, (2) Strengthening governance and leadership (Autonomous Institutions leadership and the faculty of engineering institutions),

(3) Improve the quality of teaching (Focus on outcome-based education), (4) learning and research (5) Foster stronger industry-institute collaborations and (6) Encourage Innovation. She spoke about quantity education, Impact, Benefits and significance of accreditation. She highlighted the vision, mission, program educational objectives, Program curriculum, Institutional level criteria and Governance. She stated that the Input-output based education [Measurable inputs and outputs] will increase Success rate of students. She discussed with the audience about the traditional education process and educational models. She mentioned the educational outcomes of a short term and long-term programmer.

Dr. Shashikumar D R, Professor& Head of the Dept. of CSE, held the session on the topic of 'Quality education'. He emphasized on the need for effective and efficient standard education for all. He pointed out that education enables the overall development of an individual and makes him economically productive. He briefed about the definition of quality education and its process.

The speaker stated that 57 million children in our country are still un-educated. He underlined that, "Quality education should not be an option, it has to reach to all!" Quality education is the only path towards overall development according to his words. He explained that, students aim to attain academic excellence and improve academic standards, but age-appropriate life skills should be incorporated into the areas of study and project-based learning should also be focused upon. He stated that it's significant for parents and community to get more involved in the education sector.

The third and the final speaker of the event, Dr. Suneel Kumar Kulkarni, Professor& Head, Mechanical Dept, highlighted the role of teachers in society as he held the session on the topic, 'Teacher's Development'. During the session, he quoted Radha Krishna, Scott Hayden, Benzamine Franklin and Bill Gates to explain education. He explained that, Gurukul was more prevalent during the Vedic age where students were taught various subjects and how to live. He mentioned about the advantages of Gurukul system. He pointed out that, "Teacher is a person who is responsible for developing a child into a well-balanced individual by molding him/her throughout their School days". He discussed about a teacher being a true friend, a

person who converts a shy student into an interactive person and impart Knowledge and values on learners with the intention of creating self-sufficient, articulate socially responsible, resilient and active citizens of the world. He stated that according to NEP 2020, the role of a teacher is to empower and leave a lasting change in students. He briefed that NEP 2020 recognizes that teachers will require training in high- quality content as well as Pedagogy and need to learn to manage group and brain storming activities. He described that there'll be developments in the field of modern science and thereby better learning outcomes can be achieved. He reminded the crowd that, "Teacher is a learner."

Day Seven of the event:

The Speakers of the day were Dr. Antony Piriyakumar, Dean R&D and Dr. Zubin, Dean, Incubation and they focussed on the topic ': Research Innovation and Ranking'. The following is the crux of their talks.

The Covid-19 pandemic has led to increased awareness on research, and India must now pave a new research-based path to the post-pandemic road to economic growth. The research journey, until now, has not been an encouraging one for India. According to the World

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Development Indicators published by the World Bank, India spends barely 0.69% of GDP on research, whereas Germany, the US, China and Japan spend 3%, 2.8%, 2% and 3.2%, respectively, of their GDP on research. Low incomes, poor health and sanitation, food shortage and market inaccessibility on account of poor infrastructure provide a strong case for an increased emphasis on research in India. In addition, according to the World Intellectual Property Organisation (WIPO), bulk of the research spend in India is driven by the central government (accounting for 45.5% of the total R&D spent). Another 41.4% is attributed to industry. The rest constitutes spends of the higher education sector and the state governments. Roughly 61.4% of the central government's research expenditure is in the area of defence, atomic energy and space. This proves that R&D in India is not only inadequate, but also lopsided. India has also poorly performed in having patents to its credit. According to the WIPO, of the total 50,000 patent applications of India, about 70% are by non- residents. When you compare this to China's 1.5 million applications (a whopping 90% by residents) and the US's 600,000 applications (nearly half by residents), it speaks volumes about India's poor relative position in R&D.

The key reasons for this abysmal performance are inadequate involvement of industry and the higher education sector, as well as lack of collaboration between these entities and the government in actively promoting R&D. Lack of funding and a low risk appetite, combined with a short-term rather than a long-term vision, are all more or less equal suspects in contributing to R&D insufficiency in India. The National Education Policy (NEP) 2020 report released by the government recently provides for some light at the end of the tunnel. The first noteworthy point is that the NEP provides for a research ecosystem under the stewardship of the National Research Fund (NRF). It aims at providing the required impetus to grow the R&D agenda by way of building a research ecosystem comprising the government, universities, research institutes and industry.

According to the NEP, "the NRF will work towards seeding, funding, coordinating, and monitoring research and innovation initiatives." It will also encourage research through merit-based peer evaluation of research projects along with incentives like awards for outstanding

work. The collaboration between academia and industry envisioned by the NEP calls for a patent policy structure at the university level to facilitate more patent applications. Such a policy will safeguard interests of all the entities involved, provide for a research environment, and ensure compliance with the national laws and regulations. A larger number of patents with commercial benefits will serve as incentives for continuous and sustained efforts in research. A final aspect to consider is that the NEP emphasizes a multidisciplinary approach in education and the need to nurture a curious and creative mind with a view to develop analytical and critical thinking abilities at an early age. These are the skills essential for framing the right research questions and for bringing about the required and relevant outcomes/solutions. This approach will, therefore, be instrumental in giving a meaningful thrust to research and innovation serving as yet another significant harbinger in the long-term and sustainable research endeavor for India.

Day eight of the event:

With a prime focus on the topic, 'Use of Technology in Education', the chief speakers Mr. Sreenidhi and Prof. Manjunath S from the Dept. of CSE held a session on the 8th day of the event.

In the initial part of the session, Mr. Sreenidhi discussed about the task Classification of AI, such as Formal tasks (mathematics and geometry), Mundane tasks (computer version) and Expert tasks. He also added about its real time applications. He pointed out that data Analysis plays major role in AI implementation. Talking about the benefits of AI implementation to a teacher, he explained about the Automatic grading system, Performance evaluation, Individual feedback, Easy tracking of the students and Examination Management techniques.

He mentioned that, with respect to students, personalized learning, smart content, intelligent tutoring system and educational software's shall benefit their educational journey. He stated that it is necessary for us identify our needs and the AI technologies. He added that, when the right culture, talent and technology merge, it'll make AI implementation possible.

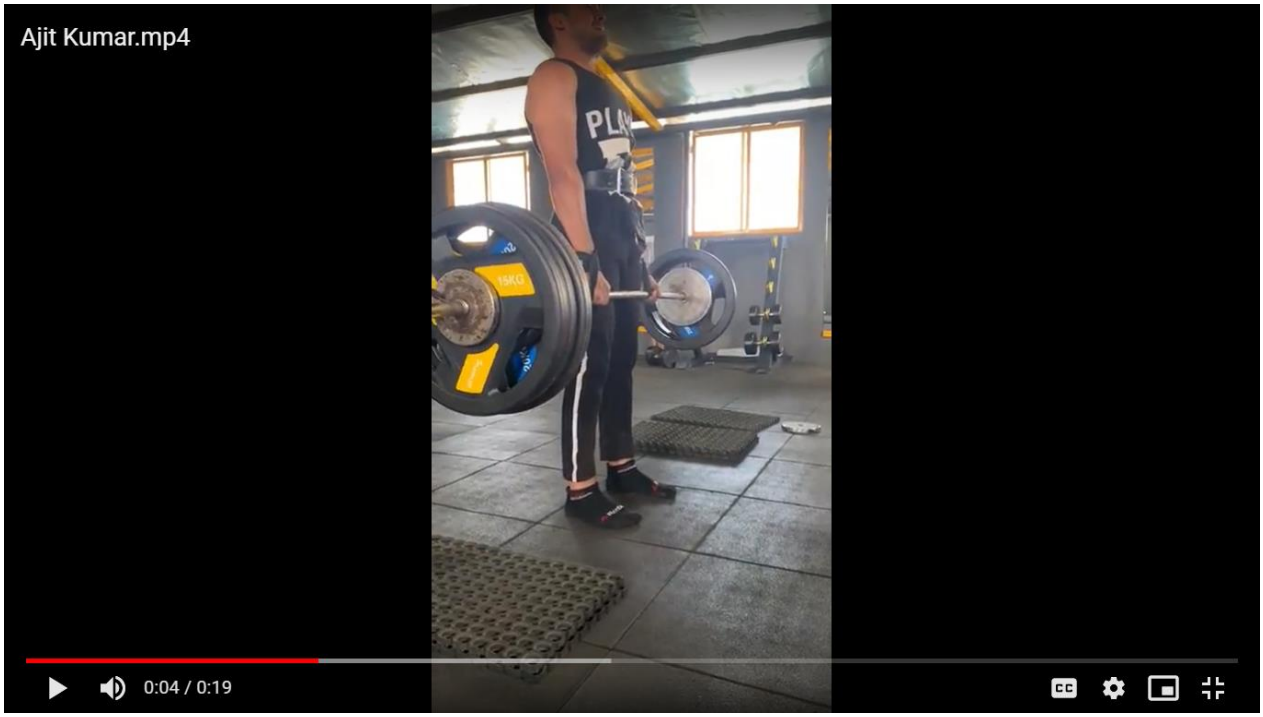
Event: Bodybuilding competition

The Rise Innovative Talent club organized a body building competition on Friday, 13th August, 2021 for the entire college by ***the department of Civil Engineering***. Bodybuilding is the use of progressive resistance exercise to control and develop one's muscles by muscle hypertrophy. A control over the body gives control over the mind and hence helps in the overall growth of an individual. The offline competition was categorized into four different exercises and was

conducted for both men and women including the Teaching staff, Non – Teaching staff, students and alumni members. The participants were informed about the necessary rules and regulations for submitting the video clips them performing the exercises with the maximum number of repetitions and with the right posture. The first competition was flat dumbbell press, under which the categories were as follows,

1. Category I – 15 kg to 30 kg dumbbell press.
2. Category II – 20 kg to 35 kg dumbbell press.
3. Category III – 25 kg to 40 kg dumbbell press.

The person with the highest reps won. The second competition was bench press, the person who lifted the highest weight won. The person who weighted the highest weight won in the third competition, dead lift. The final competition was exclusively for females, the person who look the highest number of squats, won.



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