

Volume 9

Issue 5



**Best Moments,  
We Cherish.**

May 2023

**Cambridge  
Times**



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# Volume 9 | May 2023



## Issue 5

BEST MOMENTS,  
WE CHERISH.

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## SKILL DEVELOPMENT PROGRAM ORGANIZED BY CCCIR AND AICTE IDEA LAB



The Cambrian Consultancy Center and Industrial Research (CCCIR) and AICTE Idea Lab at Cambridge Institute of Technology collaborated to organize a skill development program for first-year students. The program aimed to provide hands-on training to a selected group of students from each section, who would then pass on their knowledge to their peers through an experiential learning process. The training program for student leaders took place from 25th May to 12th June 2023. The event commenced with an inauguration ceremony on 25th May 2023. Dr. Muralidhara Reddy, Head of CCCIR, warmly welcomed the participants to the three-day training program and commended the students for their voluntary participation. Dr. Gopalakrishna, Director of the 75 Small Satellite program, addressed the enthusiastic participants, emphasizing the importance of skill enrichment in alignment with core academics. Dr. Indumathi G, Principal of Cambridge Institute of Technology and Chief Mentor of Idea Lab, highlighted the significance of skill development. Dr. S Shankar, Coordinator of Idea Lab, provided insights into the experiential activities that would be carried out during the training program. Dr. Cyril Prasanna Raj P, Co-coordinator of Idea Lab, was also addressed the students regarding the importance of Skill development Program.



## SKILL DEVELOPMENT PROGRAM ORGANIZED BY CCCIR AND AICTE IDEA LAB

*"Your skills are your most valuable asset. Invest in them wisely."*



*"Skill development is the key to unlocking your true potential and opening doors of opportunity."*



Following the training program, the student volunteers from each section will train their classmates. The training covered various skills such as PCB design and soldering, CAD modeling and 3D printing, welding and soldering, electrical and electronics equipment testing, and EV and battery management.

# SKILL DEVELOPMENT PROGRAM ORGANIZED BY CCCIR AND AICTE IDEA LAB







**CAMBRIAN**  
CORPORATE CENTER AND INDUSTRIAL RESEARCH



**CAMBRIDGE**  
INSTITUTE OF TECHNOLOGY

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6A, Purav, Bengaluru - 560 004

Conducts

# Skill Development Program

Through Experiential and Collaborative Learning

For all the First Year Students

Resource Persons/Trainers  
Tech Gurus & Experts/Professionals



25<sup>th</sup> May 2023 to  
12<sup>th</sup> June 2023

“**Learning  
by Doing...**”

## Domains

- PCB Design & Soldering
- CAD Modelling & 3D Printing
- Vehicle Repair and Maintenance
- Welding & Fabrication
- Electrical & Electronics Equipment Testing
- EV & Battery Management
- Robotics
- IOT
- Smart Manufacturing
- Microcontrollers
- Drone Technology

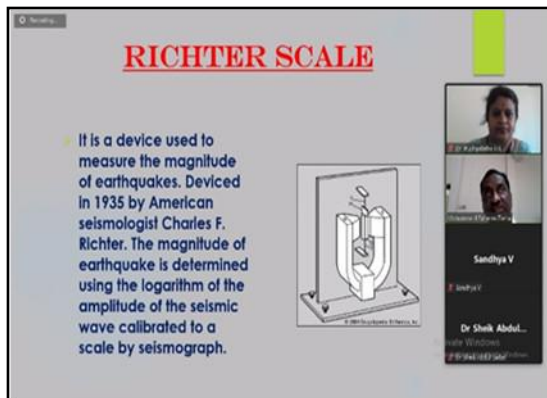
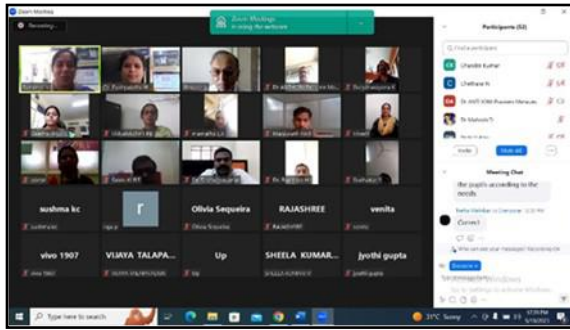
Chief Mentor IDEA Lab  
Dr. G. Indumathi, Principal-CIT

Coordinator IDEA Lab  
Dr. S. Shankar, Professor

Co-Coordinator IDEA Lab  
Dr. Cyril Prasanna Raj, Professor

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# A Five Days Online Faculty Development Program (FDP) on Applied Physics



The Department of Physics at Cambridge Institute of Technology, Bengaluru, organized a Five Days Online Faculty Development Program (FDP) on Applied Physics in VTU Curriculum from 15th to 19th May 2023. The FDP aimed to familiarize faculty members with the revised Engineering Physics syllabus introduced in the 2022 scheme by VTU, focusing on its real-time applications and emphasizing the importance of Physics in Engineering and Technology. The FDP comprised sessions on various topics, each handled by distinguished professors from esteemed institutions. The following topics were discussed during the five-day program:

## Day 1: Acoustics, Radiometry, and Photometry


Dr. D. Nagaraja, Head of the Department of Physics at Bangalore Institute of Technology, Bengaluru, delivered a session on acoustics, radiometry, and photometry. These topics were introduced into the curriculum of the CV stream, providing insights into sound and the measurement of radiant energy and light intensity.

## Day 2: Physics of Animation

Dr. Mahesh Lohith K. S., Associate Professor and Head of the Department of Physics at ATM College of Engineering, Mysuru, conducted a session on the physics of animation. This module, added to the Applied Physics syllabus for the CSE stream, focused on the essential role of Physics in achieving believable motion in animation.

## Day 3: Thermoelectric Materials and Devices

Dr. Suryanarayana K., Professor and Head of the Department of Physics at Srinivas Institute of Technology, Mangaluru, delivered a session on thermoelectric materials and devices. This topic, introduced in the Applied Physics syllabus for the ME stream, explored thermoelectric conversion and the physical properties of materials for power generation.



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We cordially invite you to the inaugural function of


## Five days Online FDP on Applied Physics in VTU Curriculum


**PRESIDED BY**


**Shri. D.K. Mohan**  
Chairman  
Cambridge Group of Institutions

**GUESTS OF HONOR**

<b>Mr. Nithin Mohan</b> CEO Cambridge Group of Institutions	<b>Dr. G. Indumathi</b> Principal Cambridge Institute of Technology
<b>Dr. Shanthi S R</b> Dean - Basic Sciences	<b>Dr. Pushpalatha H.L.</b> HOD-Physics

 **Monday,**  
15<sup>th</sup> May 2023

 Platform  
**zoom**

 **10:15 AM**

[www.cambridge.edu.in](http://www.cambridge.edu.in)

Day 4: Natural Hazards & Safety and Cryogenics On the fourth day of the FDP, two sessions were conducted. The first session, conducted by Dr. K Fakruddin, Professor and Head of the Department of Physics at Ghousia College of Engineering, Ramanagaram, covered the topic of natural hazards and safety. Various natural and man-made hazards were discussed, along with problem-solving exercises. This module was introduced in Applied Physics for the CV stream.

Day 5: Quantum Computation The final session of the FDP was dedicated to Quantum Computing. Dr. Uma M.S. from Jyothi Institute of Technology, Bengaluru, conducted this session, explaining the newly added module in the CSE stream in detail. The FDP saw the participation of approximately 130 faculty members from various VTU affiliated Engineering colleges. All participants were issued e-certificates, and the FDP was considered a grand success.



### "Advancing Innovations: CIT Receives Prestigious R&D Project from MeitY, Govt of India"



CIT, Bengaluru, has received a prestigious R&D project worth Rs. 494.00 Lakhs from MeitY, Govt of India. The project, titled "Design and Development of Ground Penetrating Radar with On-Field Reconfiguration Capability applicable to Sustainable Industrial and Agricultural Purposes," will be implemented by CIT, along with BMS College of Engineering, Bengaluru, Reva University, Bengaluru, SNS College of Technology, Coimbatore, and M/s Int-Semi Technologies Pvt. Ltd. Bengaluru. The project has received administrative approval under the Chips to Start-up (C2S) Programme. This achievement highlights CIT's commitment to cutting-edge research and development, positioning it as a leading institution in the field of technology and innovation.

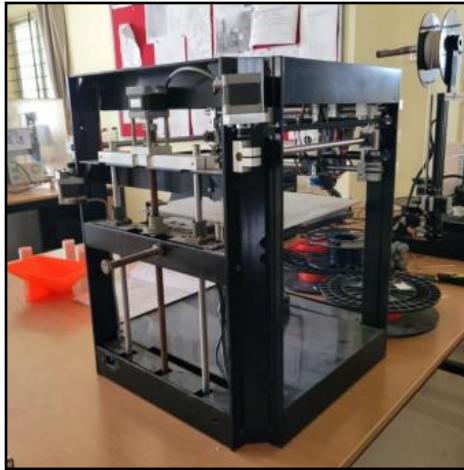
### "CIT's Outstanding Innovation Recognized: Secures NIRF Ranking in Band 101-150"



Cambridge Institute of Technology (CIT) has secured a noteworthy position in the NIRF innovation ranking. With its exceptional commitment to innovation and research, CIT has been ranked in the band of 101 to 150, highlighting its significant contributions to the field of education and technological advancements. This recognition is a testament to CIT's relentless pursuit of excellence, fostering an environment that encourages creativity, critical thinking, and transformative ideas. The institute's focus on nurturing innovation-driven initiatives and providing cutting-edge resources has propelled it to this remarkable achievement. CIT's strong emphasis on research and development, coupled with its collaborative approach, positions it as a key player in driving innovation and shaping the future of education.

### “CIT Teams Up with EOS for 3D Printing Innovations”

Cambridge Institute of Technology (CIT), Bangalore, has partnered with EOS, a global leader in 3D printing, to establish complete design, development, and manufacturing facilities on campus. This collaboration brings state-of-the-art 3D printing capabilities to CIT, with a dedicated 5000 sqft production line and R&D center. CIT's team, equipped with domain expertise and guided by mentors, works closely with both EOS and Wipro 3D to drive innovation in the field. This industry on campus collaboration positions CIT as a hub for cutting-edge 3D printing research and advancements, fostering a dynamic ecosystem of additive manufacturing expertise.



### "Exploring Collaborative Opportunities in EV Industry: CCCIR and PRAGYA Automotive Join Forces for Battery Innovation"



Dr. Cyril Prasanna, Director of CCCIR, Dr. Shankar, Principal Scientist, CCCIR, Dr. K. Gopalakrishnan, Emeritus Professor at CIT, and Dr. Y. Muralidhar Reddy visited the PRAGYA Automobile Factory at Hoskote Industrial Estate on May 16, 2023. The purpose of their visit was to explore collaborative initiatives in the field of electrical vehicles (EVs) and discuss the marketing potential of CCCIR's groundbreaking "Nano Powder" for battery rejuvenation. The visit highlights their commitment to fostering innovation in the EV industry and developing effective solutions for battery life extension. By exchanging ideas and strengthening ties, CCCIR and PRAGYA Automobile Factory aim to drive advancements in the EV sector and promote sustainable transportation options.

## Cambridge Institute of Technology Sets the Bar High with Cutting-Edge Motion Capture Technology"



Cambridge Institute of Technology has emerged as a key player in the realm of motion capture technology, catering specifically to the needs of feature film production. With state-of-the-art facilities and cutting-edge equipment, the institute has successfully conducted motion capture sessions that have captivated the film industry



## Cambridge Nano Satellite Centre Achieves Milestone in "Cambridge Satellite" Realization



CIT's R&D team, led by Mr. Nithin Mohan (CEO, Cambridge Institutions), Dr. Antony (Dean of R&D), and Dr. Cyril (Director, CCCIR), collaborated with the 75 Students Satellites Consortium at their project office. The objective was to launch the "Cambridge Satellite" in a cost-effective manner. Dr. K. Gopalakrishnan, the Project Director of the 75 Students' Satellite Team, has been working tirelessly to ensure the success of this ambitious endeavor. . The interaction involved fruitful discussions on satellite design, integration, testing, and launch strategies. The collaboration aims to leverage expertise and resources, providing students with hands-on experience and contributing to space technology advancement. The "Cambridge Satellite" launch represents a significant step forward in space research. CIT continues to support research and innovation, fostering collaboration and inspiring future space scientists and engineers.

**Department  
of  
CSE**

## Workshop on Machine Learning and Deep Learning Application

The training workshop on Machine Learning and Deep Learning Application Development using Keras and Tensor Flow was successfully conducted on 26<sup>th</sup> and 27<sup>th</sup> May 2023 at Cambridge Institute of Technology. The participants of this workshop comprised 6<sup>th</sup> semester students from the Computer Science Department and the Artificial Intelligence and Machine Learning Department. The workshop began with an ice-breaker activity facilitated by Dr. Shashikumar D R, Head of the Computer Science Department. The participants were required to line up alphabetically by first name or nickname without talking, creating a lively and engaging atmosphere. Mr. Prashanth Kannadaguli, a Senior Data Science Trainer at Dharini Academy, started the session by introducing the concepts of Machine Learning and Deep Learning. The participants actively engaged in the discussion by sharing the first words that came to their minds upon hearing these terms. This interactive approach set the stage for an immersive and collaborative learning experience. The trainers, Mr. Prashanth Kannadaguli and Mr. Mehul Jain, a Software Developer and Data Scientist at SAP labs, provided comprehensive explanations and hands-on exercises to enhance the participants' understanding of the subject. The participants expressed their gratitude to the trainers for their valuable guidance and insights.



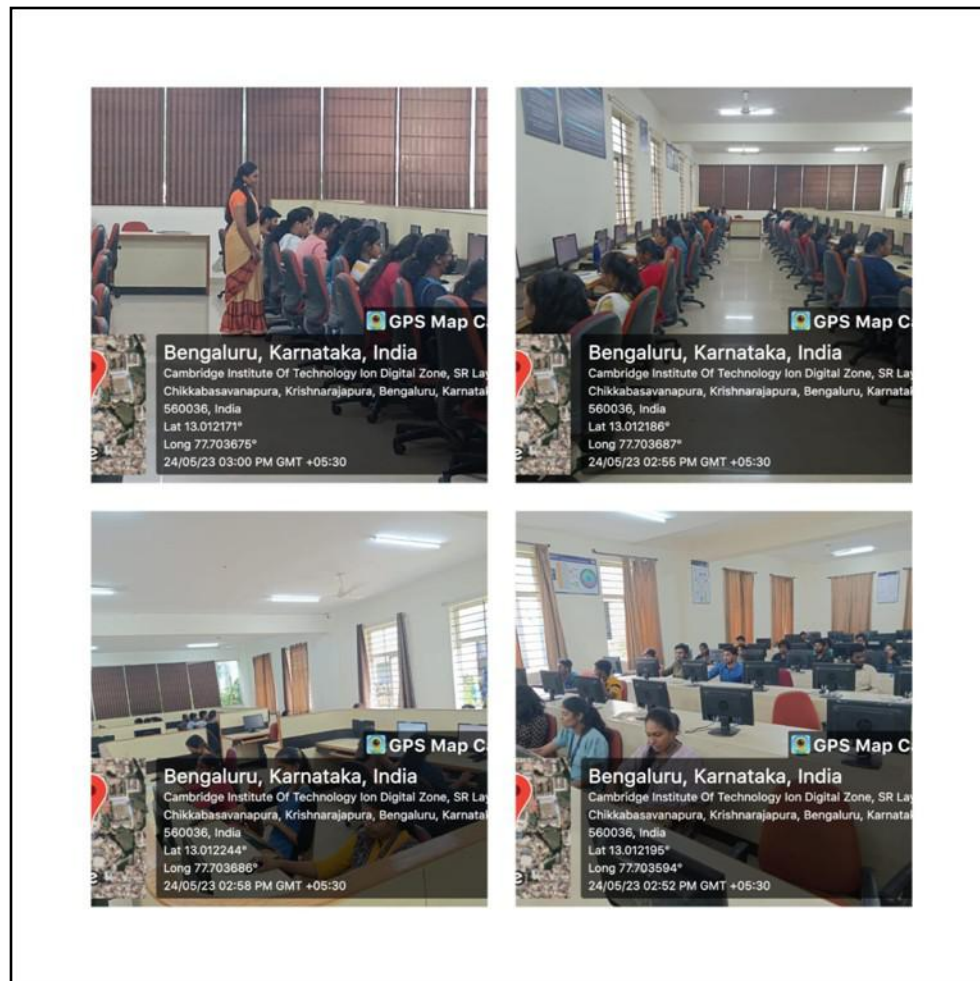


## Forum Activity on Technical Coding Competition

The Department of Computer Science and Engineering (CSE) organized a Coding Competition for the 6th semester students on 24<sup>th</sup> May 2023. The primary objective of this competition was to enhance the students' technical knowledge and coding skills.

All the students enthusiastically participated in the competition, showcasing their coding prowess and problem-solving abilities. The competition consisted of six different coding patterns that had to be solved using any programming language of their choice. This allowed the students to demonstrate their proficiency in programming concepts and logic implementation.

The participants were evaluated based on the execution time of their code, encouraging them to optimize their solutions and enhance their programming efficiency. The competition fostered a healthy spirit of competition among the students, motivating them to strive for excellence in their coding abilities.



**Department  
of  
ISE**

## Student Awareness Program on Career Guidance



The Department of Information Science and Engineering (ISE) organized a Student Awareness Program on Career Guidance for the 6th semester students on 25/05/2023 as part of the Fiesta Forum Activity. Mr. Abhilash Kaparathi, Sales and Marketing Manager at Nestlins, was the esteemed speaker for the program. During the program, Mr. Kaparathi emphasized the significance of competitive examinations for those aiming for higher studies. He provided valuable insights into the various competitive exams that students may consider and outlined the criteria that must be fulfilled to undertake these exams. This information empowered the students and helped them gain a clearer understanding of the pathways available to achieve their academic goals. Furthermore, Mr. Kaparathi discussed the importance of setting future goals and highlighted the key factors that need to be taken into consideration to attain these goals. The program was a resounding success, contributing significantly to the personal and professional development of the participants.



**Department  
of  
Civil Engineering**

## "Bridge the Gap – Institute Industry Curriculum"



The Department of Civil Engineering organized a one-day workshop titled "Bridge the Gap – Institute Industry Curriculum" for the VI semester students on 31<sup>st</sup> May 2023. The workshop aimed to address the disparity between the curriculum and industry requirements, providing students with practical knowledge and skills relevant to their future careers.

The session commenced with a talk by Ms. Ramya Shree from Jupiter Academy of Excellence, Bangalore. She highlighted the gap that exists between the academic curriculum and the industry's expectations. Through her engaging presentation, she emphasized the importance of bridging this gap to enhance employability and career prospects for the students.

The workshop incorporated various activity-based sessions, covering key areas of project management in construction, quantitative surveying and contract management, interior designing, and the design of RCC (Reinforced Cement Concrete) and steel structures. These sessions aimed to provide hands-on experience and practical insights into the industry practices related to these areas.

During the project management session, students learned about the various stages involved in construction projects and the effective management of resources, time, and finances. The session on quantitative surveying and contract management equipped students with the skills to accurately measure and estimate quantities, as well as manage contracts effectively.

The interior designing session focused on the principles and techniques of creating aesthetically pleasing and functional interior spaces. Students gained knowledge of space planning, color theory, material selection, and furniture arrangement.

By actively participating in the activity-based sessions, the students had the opportunity to apply their theoretical knowledge and develop a better understanding of the industry's requirements.

**Department  
of  
ECE**



## "Aptitude Test "



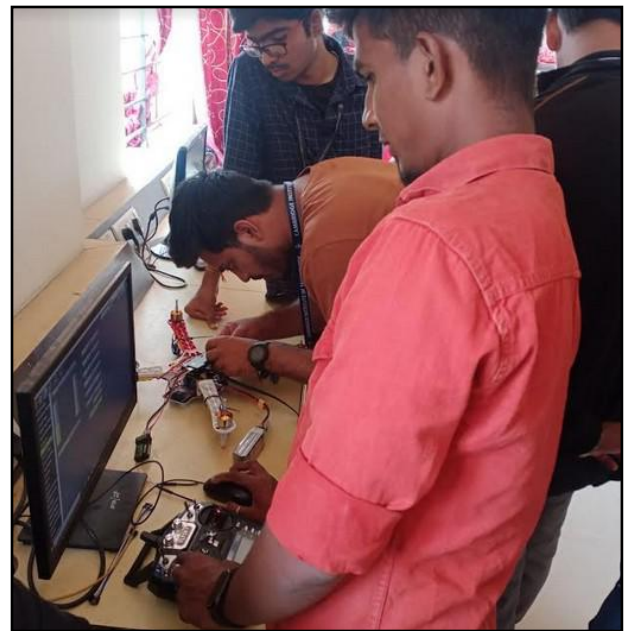
The Department of ECE conducted an Aptitude Test for the 6<sup>th</sup> semester students on 2<sup>nd</sup> May 2023. The test aimed to assess and enhance their quantitative and logical reasoning skills. A total of 160 students actively participated and displayed enthusiasm throughout the test. Prof. Chaithra S, department of ECE coordinated the test effectively and ensured a fair evaluation process. The test covered various topics and challenged the students' critical thinking abilities. The department is dedicated to providing holistic education, and the test served as an opportunity for self-assessment and preparation for future endeavors.

## "Two day workshop on RC Quadcopter"

The Department of Electronics and Communication Engineering (ECE) at CIT organized a two-day workshop on RC Quadcopter in collaboration with Avian Aerospace. The workshop aimed to provide hands-on training and practical knowledge to the 6th semester students of ECE. A total of 60 participants attended the workshop.

Avian Aerospace, a renowned organization specializing in drone technology, conducted the workshop. The event started with a brief introduction by the workshop coordinator, highlighting the importance and applications of RC Quadcopters in various industries.

Throughout the workshop, participants were engaged in interactive sessions and practical demonstrations. They learned about the components of an RC Quadcopter, flight dynamics, control systems, and safety precautions. Participants were also introduced to programming and customizing their quadcopters.



**Department  
of  
MBA**

# Intellectual Property Protection, Ethics & Responsibilities

On 08/05/2023 at 11 am, the Department of MBA organized a one-day awareness session on "Intellectual Property Protection, Ethics & Responsibilities" in the DKM Block Seminar hall. The event aimed to create awareness among the 1st semester MBA students about intellectual property rights (IPR).

The session was conducted by Dr. Antony Louis Piriya Kumar, Dean R&D, CIT, Bangalore, who provided valuable insights into the importance of IPR in today's environment. He highlighted how the definition of assets has expanded from material to non-material, emphasizing the need to understand different forms of intellectual property.

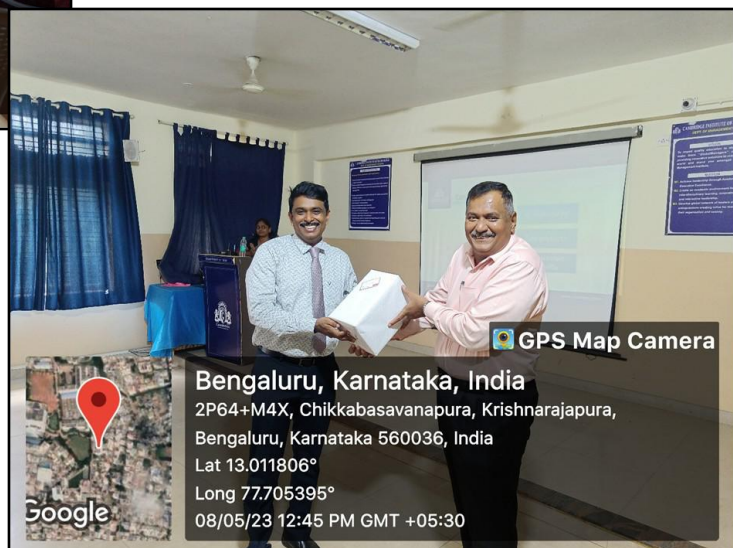
During the session, Dr. Piriya Kumar covered the following topics:

1. Introduction to Intellectual Property Rights
2. Laws governing IP
3. Types of IP, including patents, trademarks, and copyrights

Infringement and its implications

The discussion emphasized that IPR not only protects inventors and contributors but also promotes the dissemination of scientific and technological information, leading to advancements in research and development. It was highlighted that effective IPR policies minimize transaction costs and conflicts of interest, providing incentives for innovation and ultimately benefiting the nation's wealth.

The session was highly informative for the participants, particularly as many of them were unaware of the procedures involved in filing patents.



# VISION AND MISSION OF THE INSTITUTE



## VISION

To become a premier institute transforming our students to be global professionals.

## MISSION

M1. Develop competent Human resources, and create state-of-the-art infrastructure to impart quality education and to support research.

M2. Adopt tertiary approach in teaching—learning pedagogy that transforms students to become competent professionals and entrepreneurs.

M3. Nurture and train students to develop the qualities of global professionals.

To Know More



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