



REPORT OF INITIATIVES TAKEN UNDER THE AEGIS OF INSTITUTION'S INNOVATION COUNCIL

(SEP 2021 to AUG 2022)

MCKV INSTITUTE OF ENGINEERING

(NAAC Accredited 'A' Grade Autonomous Institute)

243, G T Road North, Liluah, Howrah, West Bengal -711204

About the College

MCKV Institute of Engineering is one of the top engineering colleges in West Bengal established more than two decades ago (since 1999) with a vision to foster the spirit of technological learning and its application through creating the right kind of opportunity and ambience for educating young minds in the digital era. The Institute has been accredited by NAAC with an 'A' Grade, and it is an Autonomous Institute affiliated to MAKAUT, WB and approved by AICTE. It offers core and applied engineering programmes like: Mechanical Engineering, Electrical Engineering, Computer Science Engineering, Electronics and Communication Engineering, Information Technology and last but not the least a very niche stream that is Automobile Engineering, some of which are accredited by NBA. Besides, M. Tech in Electronics and Communication Engineering (with specialization in Communication) is being conducted to encourage students in higher studies for over 10 years.

With the confidence of her illustrious track record and with the support of autonomy, MCKVIE has stepped in to launch three new B. Tech courses viz. CSE (Data Science), EC (VLSI Design) and Artificial Intelligence & Machine Learning (AI&ML) along with a PG course in the field of Management, MBA (Business Analytics) where the curricula are designed to accommodate the trending need of the Industry.

The Institute is always committed to provide quality education to cater to the diversified needs of the industry and encourage research works as well for the society at large. Its State-of-the-art infrastructure, industry-academia collaborations, experienced senior faculty and rigorous hands-on training sessions, transform students into industry-ready professionals. For more than 20 years, MCKVIE has been known for its spirit of excellence that transforms students into intellectuals, where faculty works with the students to engineer solutions and encourage exploration across disciplines. Critical thinking and networking is the main focus – on campus, off campus and after graduation.

Institute Innovation's Council: Inspiring Ideas to Innovate & Change



The Ministry of Education with the vision of creating and promoting the culture of innovation amongst institutions of higher education has founded the MOE's Innovation Cell. As the Convener of Institute's Innovation Council (IIC), it has been my pleasure to witness the growth of IIC of MCKVIE. IIC has made all efforts to enhance the culture of innovation and entrepreneurship by organizing various activities like Motivational Journey of Innovators and Entrepreneurs.

The Institute's Innovation Cell (IIC) is actively instrumental in providing opportunities to students and faculty and to innovate and ideate through competitions like Idea Competition and Internal Software Hackathons. True to the spirit of MIC, the primary goal of IIC has been to empower minds and cultivate innovative ideas that can be useful to the society. The opportunities provided by MIC have been extremely enriching in enabling the students and faculty to ensure organic growth in terms of innovation.

I am indebted to Principal, Prof. Abhijit Lahiri, for his continuous encouragement and support. In addition, I express my sincere appreciation to all the faculty members and students other respected members of IIC associated with the council who have made this journey memorable and fruitful with their hard work. I hope that we can continue to inspire this zeal to innovate for the betterment of our society.

A handwritten signature in blue ink that reads "Joydeep Banerjee".

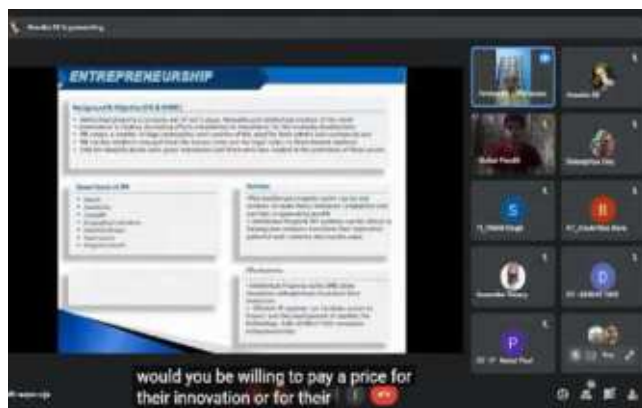
Dr. Joydeep Banerjee
Convener, IIC, MCKVIE

**Reports of the program
organized by IIC, MCKVIE
*(Sep 21-Aug 22)***

IPR & IP MANAGEMENT FOR INNOVATION AND STARTUPS

Date: 21st September, 2021

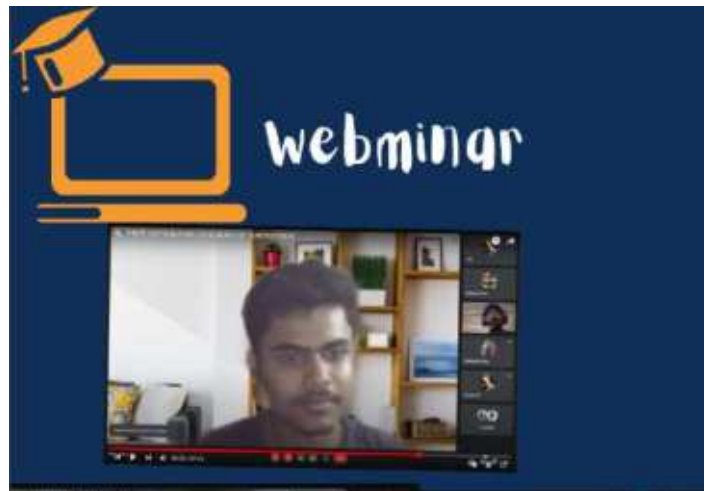
One day Mentoring Session on, “IPR & IP Management for Innovation and Startups” organized by the Start Up Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 21.09.2021 using Google meet online platform and YouTube live session. The speaker of this event was Mr. Ambarish Chatterjee, Education officer of MCKV group. Overall 147 no. of student members and 2 faculty members have successfully attended this event.



EUREKATHON

Date: 23rd to 26th September, 2021

The Startup Club by MCKVIE & the Coders Club by TSC organized EUREKA-THON where participants can showcase their skills and build cool projects. Hackathons are a great opportunity for learning and developing ideas. The theme is Web development & App Development. Participants are benefitted by learning new skills as well as get an opportunity to brush up on your existing knowledge, learning how to develop ideas and build their own projects and exposure and get to connect with new people.



MCKVIE HACKATHON

Date: 10th October, 2021

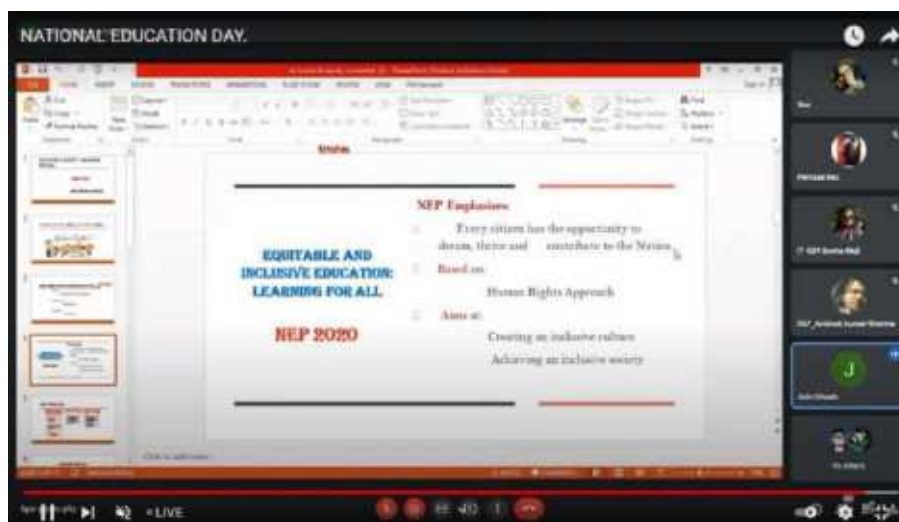
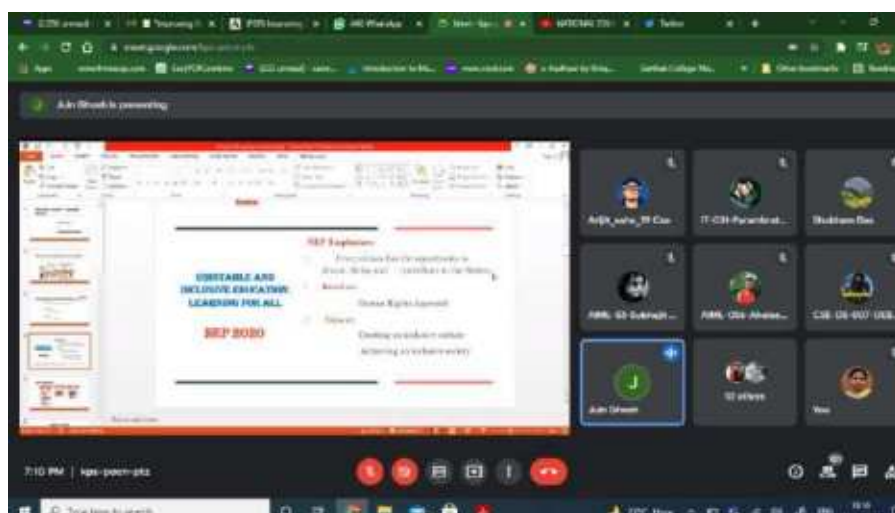
MCKVIE HACKATHON 2021 was organised on 10th October, 2021. The event was organised online on Google meet platform. Mr. Subham Saha a start-up enthusiast organised the entire event. Over 100 students have successfully attended in this webinar.



NATIONAL EDUCATION DAY CELEBRATION

Date: 11th November, 2021

RCMCKVIE along with Institute Innovation Council celebrated National Education Day on 11th November, 2021 in virtual mode. We arranged a webinar on new education policy, NEP 2020. Mrs Juin Ghosh Sarkar was the speaker of the day. More than 200 participants were participated in this webinar. Google meet and YouTube live was the way of organizing the webinar.



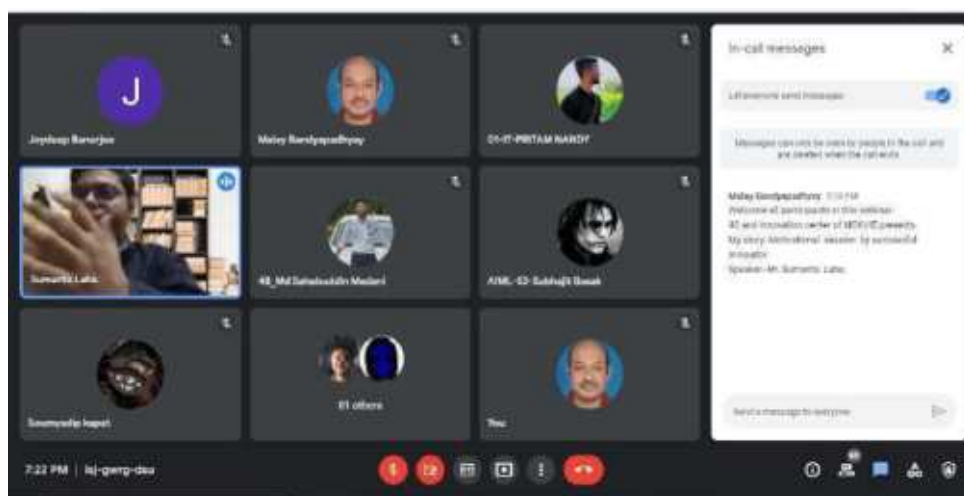
MY STORY-MOTIVATIONAL SESSION BY SUCCESSFUL INNOVATOR

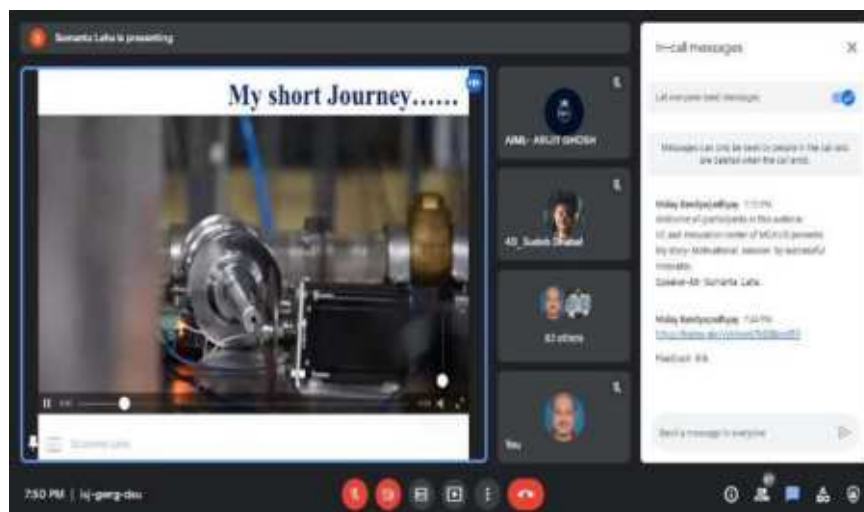
Date: 13th November, 2021

An online session of Innovation Centre of MCKVIE with collaboration of Institution's Innovation Council was organized on 13th November, 2021 at 7 pm through Google meet platform. Approximately 90 participants (students and faculty members) attended on this event. The session was chaired by Mr. Sumanta Laha, Innovator and researcher on cardiovascular fluid mechanics.

It was a highly motivational talk and the topic was “My story-Motivational Session by successful Innovator.” The speaker was as alumni of this institute in the Mechanical Engineering department. So, the student community received a vivid insight of innovation, research and invention. The detailed discussion helped them understand the opportunity of innovation during their B.Tech studies.

The speaker was awarded SITARE-GYTI national award 2020 for the work titled “An Automated Cardiovascular Replicator for Online Assessment of Cardiac Assist Devices, Prosthetics and beyond” with financial grant from BIRAC. The video demonstration of this work was discussed by him and the students are highly motivated by this work. At last, Mr. Laha motivated and assured the students to assist any types of research and innovation activities that will be carried by them.



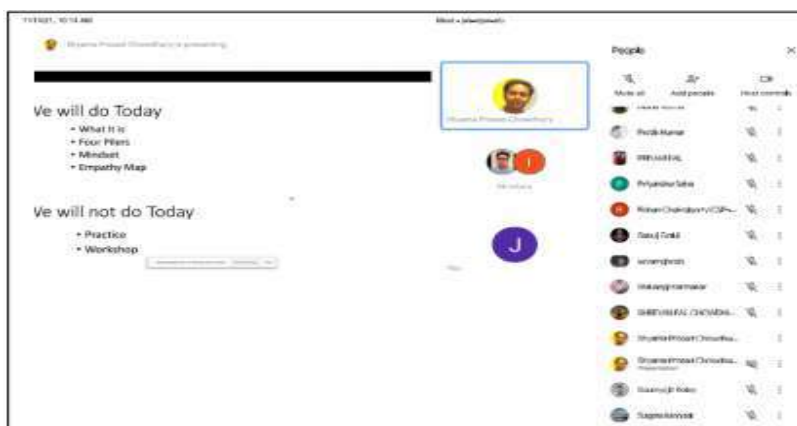


PROBLEM SOLVING AND IDEATION WORKSHOP- DESIGN THINKING PROCESS

Date: 14th November, 2021

Institution Innovation Council in collaboration with Startup Club and Innovation & Entrepreneurship Development Center organized a workshop on 'Problem Solving and Ideation -Design Thinking Process' on 14th November 2021.

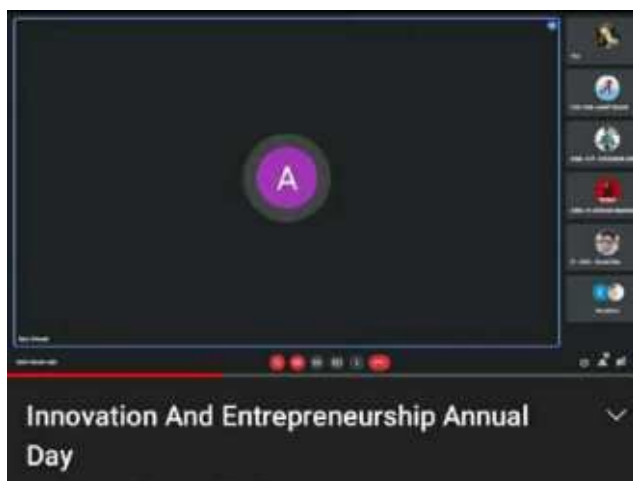
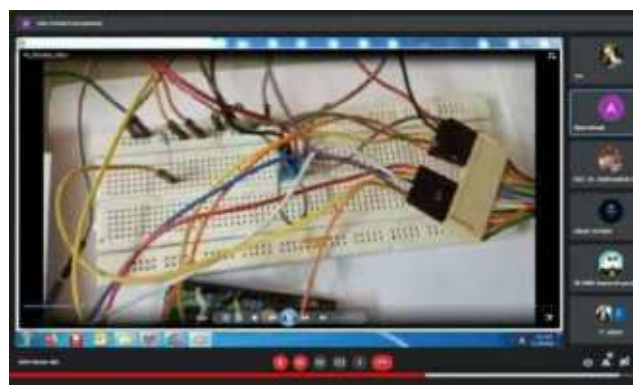
Dr. Shyama Prasad Chowdhury, Sr. Manager, IBM India Private Limited discussed about different aspects of Design thinking process. He enlightened the students about Ideation process, the importance of teamwork. He focused on several topics Data Analytics, Big Data Management, Machine Learning, and Intelligent Transportation Systems. He also encouraged the students to take up free lancing projects through Internet and how they can get experience. The workshop was very exhaustive, and students got awareness about diverse opportunities available in this field. In nutshell, through this workshop, students were exposed and were encouraged to generate and execute their own ideas.



INNOVATION AND ENTREPRENEURSHIP ANNUAL DAY AND INNOVATION DAY CELEBRATIONS

Date: 29th November, 2021

The Start Up Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE has jointly organized Innovation and Entrepreneurship Annual day and Innovation day celebrations for birthday celebration of Dr. APJ Abdul Kalam on 15th October). Mr. Ajoy Ghoshal, Faculty-in-charge, Innovation Cell MCKVIE, delivered his valuable speech on that day. The program was organized on Google meet platform. Total 160 numbers of student and 6 faculty members participated in this event.



INTERNSHIP AT INNOVATION & START-UP CENTRE/START-UPS/INCUBATION UNIT

Duration: September, 2021 to November, 2021

Students of MCKVIE performed research and internship in different startup centre and incubation unit during September to November, 2021. Mr. Saikat Dutta from ME department have done internship in on-field internship at Flipkart Sankrail FC during 13th September to 27th October, 2021. Here he was assigned at the RC (Return Centre) department. There are many departments like Inbound, Outbound, Picking, Putting, and Packing. His role in the RC department was to process the return product. There are two types of return product one is RTO (Return to Origin) and another is RVP (Reverse Process). He uses to process the RTO which means the product did not reached the customers hand. It was either undelivered or was on wrong location. After checking the product in my system it is passed if it is ok or if it is found tampered or fraud then it is fail. After the process it is put listed in tote then the pass product is taken by the put list department and it is kept in the inventory. The fail product contains many bulk like fraud bulk, damage bulk, non damage bulk and disposal bulk. The bulk is shown in the device. According to him, it was an overall great experience. From where he gained knowledge how an E commerce company runs which will surely help in future to create a startup like this and also provided a great innovative idea for the startup.

Ms. Sonal Jaiswal from IT department has done internship on researching and extracting database for prospective clients during 13th August to 13th October, 2021. Contacting clients via mail, LinkedIn, Face book, etc and converting leads into sales. Suggest and implement new sales plans and advertising for higher number of conversions.

Biplab Kundu, Yashodhara Banerjee, Lisa Karar & Saheli Nag from ECE department doing work on alternative to the traditional Wheatstone Bridge Pressure Sensors, by using Basic Current Mirror Sensing technique to design efficient high sensitivity CMOS-MEMS Integrated Pressure Circuit. The pressure sensing technique is based on Piezoresistive effect of the MOSFET. In the design of the MEMS Pressure Sensor, three identical n-MOSFETs are used that are connected in current mirror configuration. The three MOSFETs have different uses. The input transistor from the current mirror circuit is used as reference and it is the constant current source in the circuit. Two of the other transistors are placed on the edge and center of the diaphragm. These two transistors help in sensing the tensile stress developing on the diaphragm. This pressure sensing circuit uses the Piezoresistive effect on MOSFETs to sense the stress in miniaturized form of equipment. The analytical models help in calculating the strain induced carrier mobility variation under applied pressure. Output voltage across the sensing MOSFET is simulated under different pressure value. Results based on circuit simulation show that the sensitivity of this current mirror-based circuit is higher than that of the Wheatstone bridge configuration. This sensor is applicable for the automobile industry and in the

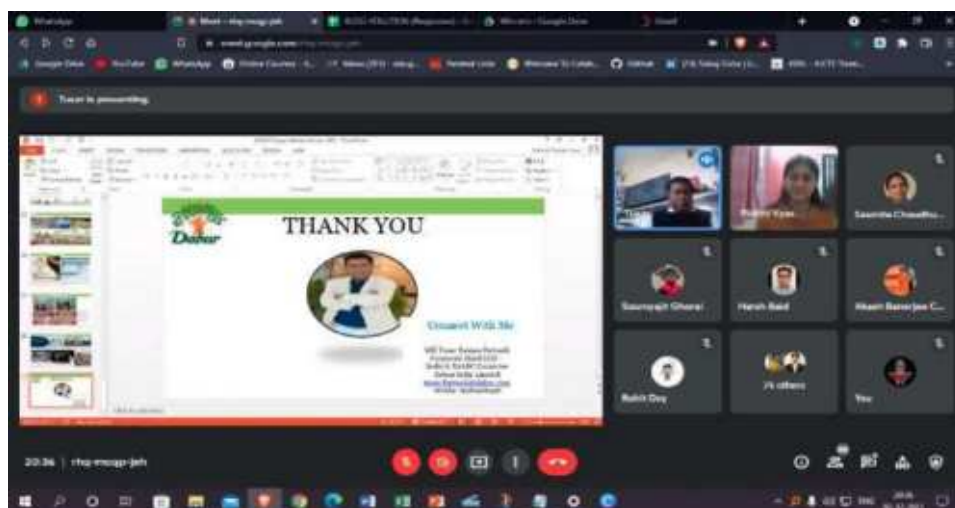
medical electronics field. This work is presented on “Student Paper Contest-2021” organized by the IEEE Solid-State Circuits Society, Kolkata Chapter, held on 3rd October, 2021 in Virtual Mode.



NATIONAL POLLUTION CONTROL DAY CELEBRATION

Date: 2nd December, 2021

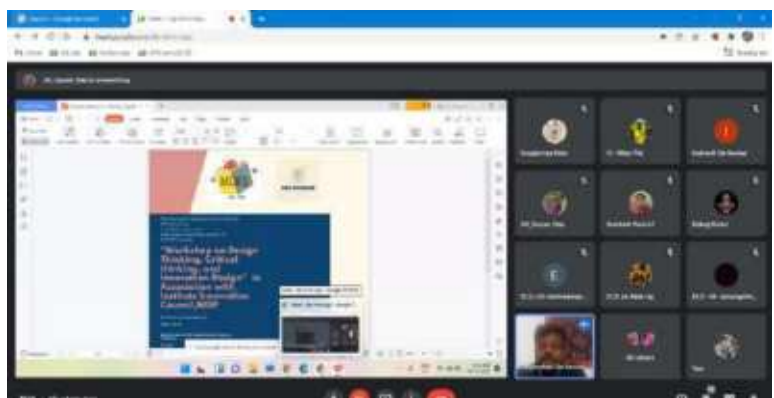
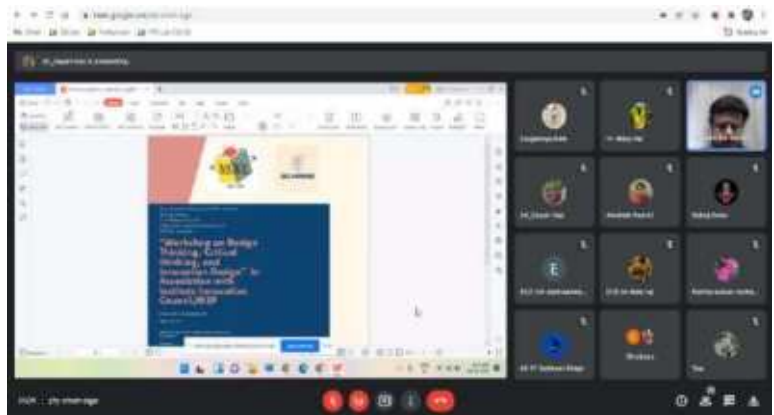
RC MCKVIE along with Institute Innovation Council celebrated National Pollution Control day on 2nd December, 2021 in virtual mode. We organized a webinar on this aspect. Mr. Soumyajit Ghorai, Assistant professor, MCKVIE, discussed on different types of pollution, its causes and effects and major steps to handle it. Mr Tushar Ranjan Pattnaik, Corporate Head-EHS & Plastic Waste Management, Dabur India Limited (India & SAARC Countries), extended our vision on “Plastic Management journey in India”. He discussed about how to handle this greatest pollutant for our country and the major steps towards recycling of plastics. More than 200 participants were participated in this webinar. Google meet and YouTube live was the way of organizing the webinar.



WORKSHOP ON DESIGN THINKING, CRITICAL THINKING, AND INNOVATION DESIGN

Date: 05.12.2021

The Innovation Centre of MCKVIE and Institute's Innovation Council of MCKVIE jointly organized the workshop on Design Thinking, Critical thinking, and Innovation Design on 5th December, 2021. Mr. Rajmohan De Sarkar, Technical Director of Ardent Computech Pvt Ltd was delivered his valuable speech in this program. The program was organized on Google meet platform and Youtube live streaming was also available. Total 85 numbers of student and 16 faculty member was participated in this event.

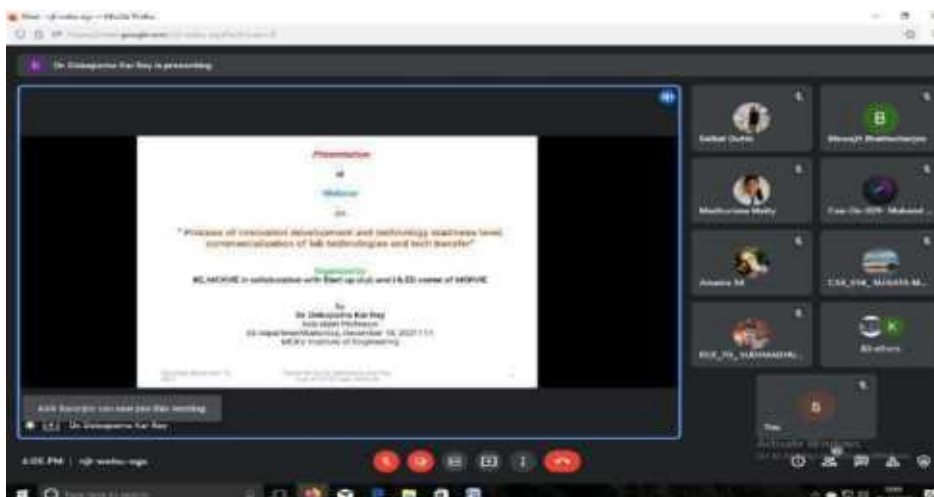
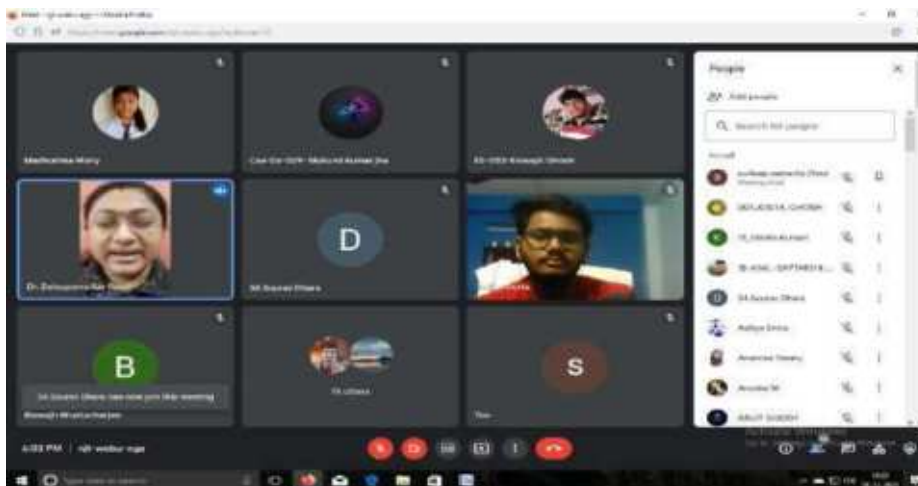


PROCESS OF INNOVATION DEVELOPMENT & TECHNOLOGY READINESS LEVEL (TRL) & COMMERCIALIZATION OF LAB TECHNOLOGIES & TECH TRANSFER

Date: 18th December, 2021

IIC Center, MCKVIE in collaboration with Startup Club and I & EDC was organized a webinar on "Process of Innovation Development & Technology Readiness Level (TRL) & Commercialization of Lab Technologies & Tech Transfer" on 18th December, 2021 at 6 P.M. The Program is coordinated by Mr. Sudeep Samanta, Assistant Professor, EE Department, MCKVIE.

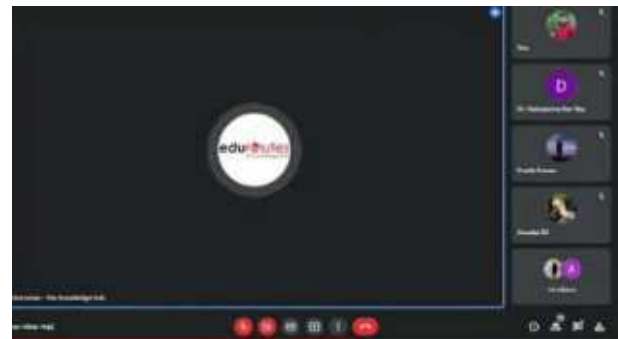
In this webinar, Dr. Debopama Kar Ray, Assistant professor, EE Department, MCKVIE, have played the role of speaker. More than 100 participants were participated in this webinar. The program was organized in Google meet platform. Successful participates are awarded by Certificates.



FUNDING OPPORTUNITIES FOR INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT

Date: 9th January, 2022

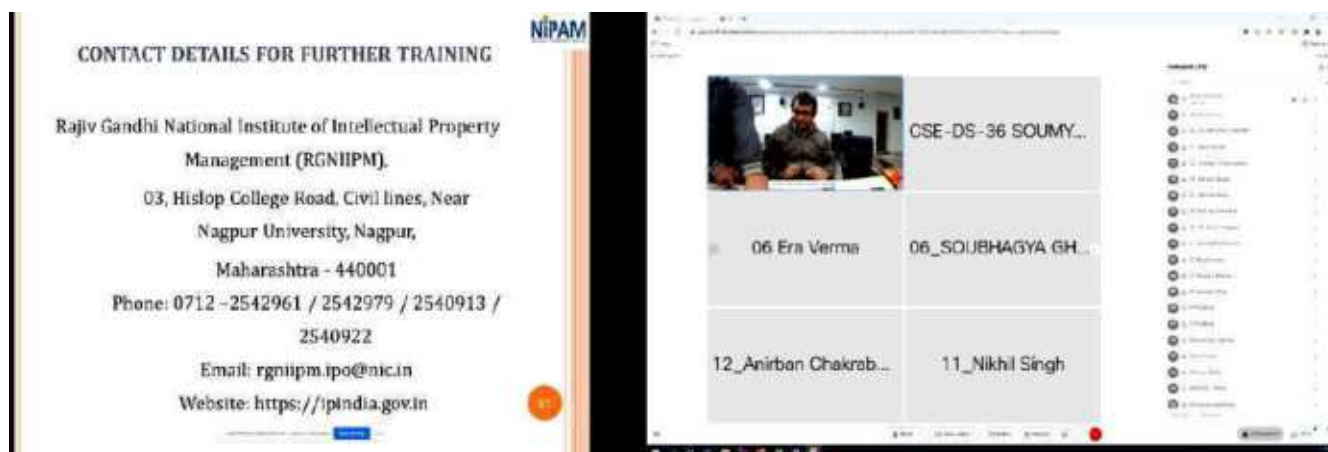
One day workshop on "Funding Opportunities for Innovation and Entrepreneurship Development" was organized by The Start Up Club by MCKVIE, Institute Innovation Council, MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 9th January, 2022. The speakers were Dr. ASHISH KHANNA, and Dr. SHIVANI GUPTA. The platform used was Google meet and YouTube. 170 Student attendees and 4 Faculty attendees were present.



INTELLECTUAL PROPERTY RIGHTS (IPRS) AWARENESS PROGRAMME

Date: 12th January, 2022

One day seminar on "Intellectual property rights (IPRs) Awareness programme" was organized jointly by Institute Innovation Council, MCKVIE, NIPAM and Ministry of Commerce, Govt. of India on 12th January, 2022. The speaker was Mr. Arnab Bhattacharyya, Examiner of Patents and designs, Patent Office, Kolkata. The platform used was Webex. 846 Staff and Student attendees of the institute were present.



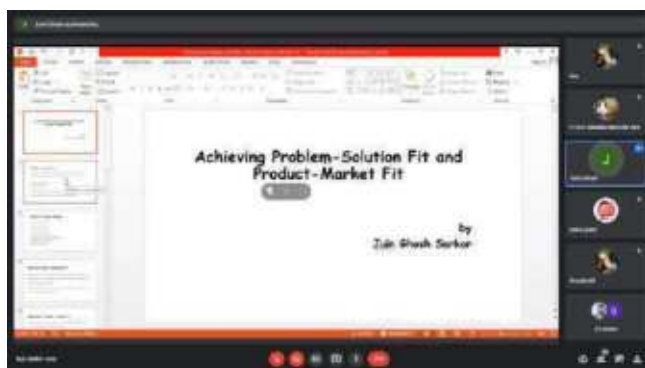
ACHIEVING PROBLEM-SOLUTION FIT & PRODUCT-MARKET FIT

Date: 12th February, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on "Achieving Problem-Solution Fit & Product-Market Fit" on 12th February, 2022 from 6 P.M to 7 P.M via Google Meet online platform. The program is coordinated by Mr. Soutrik Bose, Assistant Professor, ME department, MCKVIE.

The purpose of the event is to give the budding student entrepreneurs the knowledge on "Achieving Problem-Solution Fit & Product-Market Fit". The topic mainly highlighted the very contemporary issue of Problem Solution and Product Market Fit, which is actually the main formula for the survival of the product in the market for the long run. Consumer Behavior has emerged as a distinct sub-discipline of marketing management since 1950. Problem-solution Fit is a stage that actually proves the existence of a problem and has designed a value proposition that addresses the customers' jobs, pains, and gains. It occurs when we have evidence that customers care about certain jobs, pains, and gains. Product-market fit means that the product is placed in a good market with other products that can satisfy that market. When an entrepreneur identifies a need in the market and builds a solution that customers want to buy, that's product-market fit. This occurs when we have evidence that our value proposition is actually creating value for customers by alleviating their pains and creating the gains they desire.

Ms. Juin Ghosh Sarkar, Assistant Professor, Management Science and Humanities, MCKVIE delivered her valuable speech in this event. More than 90 students and 5 faculty members were participated in this webinar. Successful participants are awarded by Certificates.





The StartUp Club by MCKVIE

In collaboration with
Innovation & Entrepreneurship Development Center of MCKVIE
and Institution Innovation Council of MCKVIE
presents a session on

"Achieving Problem-Solution Fit & Product-Market Fit"



Speaker
Juin Ghosh Sarkar

Assistant Professor, Management
Science and Humanities ||
M.Com from University of Calcutta ||
MBA (Finance) from WBUT ||
More than 12 years of
academic experience ||
4 years of industry experience.



12 July 2022
Time: 6:00 PM to 7:00 PM (IST)
Via Google meet & YouTube Live
<https://meet.google.com/hzj-dwkn-one>



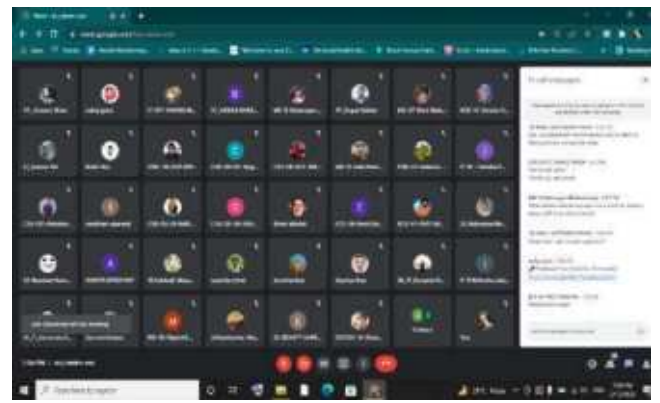
+91 96301 12123
SOUTRIK BOSE
Faculty co-ordinator



+91 9802563257
ANUSKA SIL
Student co-ordinator



@thestartupclubbymckvie



BRAINRUSH 2K22

Date: 12th February, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on "Brainrush 2K22" on 12th February, 2022. The program is coordinated by Mr. Sumit Majumdar, Assistant Professor, CSE department; MCKVIE along with student coordinator Soujanya Deb. Brainrush is an intra-college competition that checks critical thinking ability of students. The benefits obtained from this event are critical thinking, out of the box thinking, cope up with sudden situation, public speaking, team work, leadership quality.

Total no. of 501 students and 12 faculty members were participated in this contest. Successful participants are awarded by Certificates.



PROTOTYPE/PROCESS DESIGN AND DEVELOPMENT – PROTOTYPING

Date: 13th March, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with AICTE-NISP, Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on " Prototype/Process Design and Development - Prototyping " on 13th March, 2022 on 13th March, 2022 Time: 06:00 PM to 07:00 PM. The program is coordinated by Mr. Soutrik Bose, Assistant Professor, ME department, MCKVIE along with student coordinator Anuska Sil. The speaker of this event Mr. Shamik Guha, Team Lead at Altor. Altor is a smart mobility company that attempts to prevent and detect accidents on the road. Currently, it offers India's first range of smart headgears with behaviour-modification & accident detection capabilities among others. It recently got featured in the prestigious show Shark Tank India that aired across Sony Entertainment Television Network over the past few weeks.

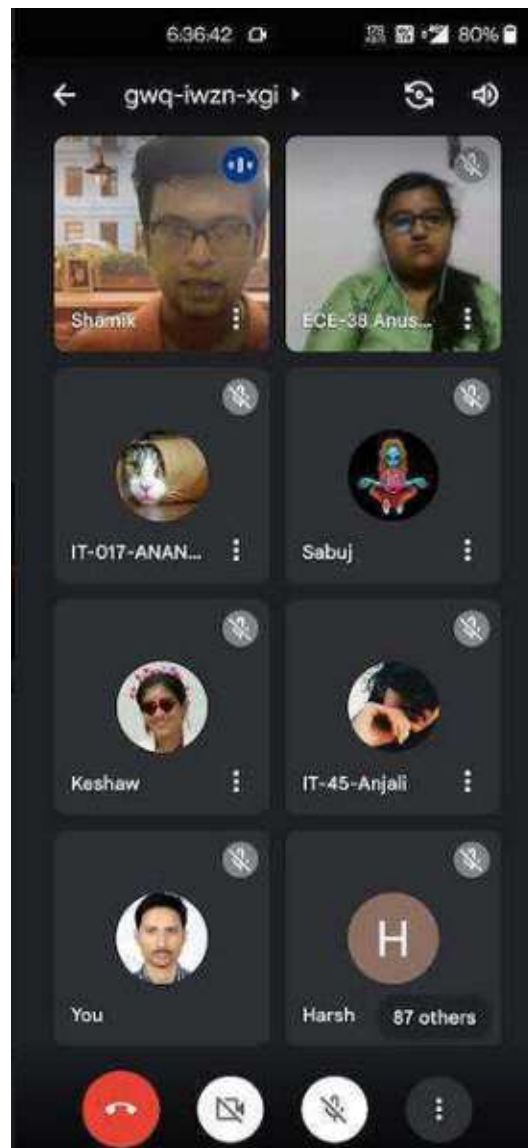
Google meet: <http://meet.google.com/gwq-iwzn-xgi>

YouTube live: <https://youtu.be/uywRcQSh2d8>

The main outcome of the session is how exactly a hardware product ideation and GTM strategy takes place in reality, the scrum model and the lean philosophy of building hardware products in today's world, along with notes on the challenges faced in the same.

Total no. of 170 students and 7 staff members were participated in this contest. Successful participants are awarded by Certificates.





TECHNOTICA 2021-2022

Date: 31st March, 2022

Technotica 2021-22 was held on 31st March, 2022. Initial call for projects was published on 3rd November 2021. After initial screening round, 12 teams (34 students) participated in the final round of competition. Students worked hard in implementation and demonstration of their projects. Participants presented their work in front of external judge and other students/faculties of the institute. Projects were evaluated on the basis of innovation, originality, practicability, understanding and presentation of work. Standings were decided by the external judge considering above mentioned criteria. In this event Dr. Dhritinandan Kole, Research & Development Executive, Eltron Wireless was presented as external judge. Total 12 no. of teams from various departments was participated in this event.

Following teams were awarded:

1. First prize:
Project name: Intelligent Cleaning Robot
Team Members: Neha Dolui, Soham Banerjee, Anubhab Mukherjee
2. Second prize:
Project name: Home from the Future
Team Members: Raunak Ghosh, Syeeb Uddin Mallick, Rahul Sapui
3. Third prize:
Project name: MEDIWELL - One App, Easy Life
Team Members: Pritam Bose, Sandip Chakraborty, Palash Bag

Consolation prizes for fourth & fifth positions were also awarded to the participants.

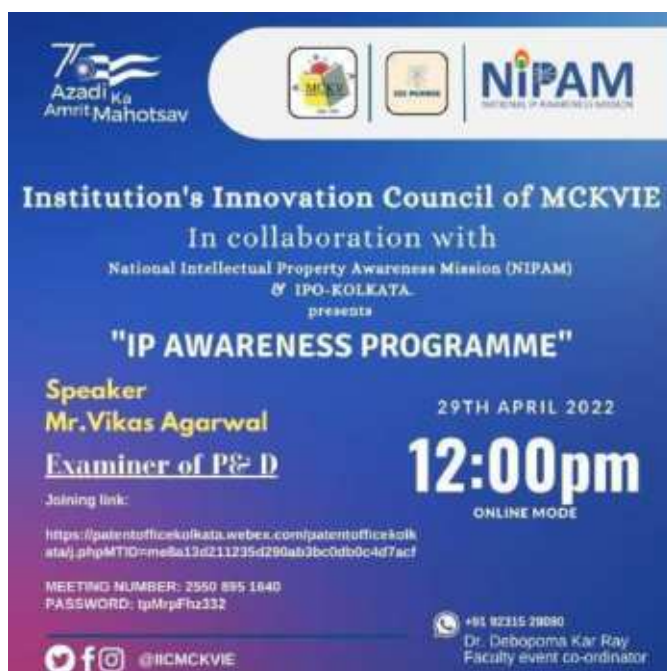




IPR AWARENESS PROGRAM

Date: 29th April, 2022

An IPR event has been conducted on 29th April, 2022, titled “IPR awareness program” at MCKVIE in online mode wherein speaker MR. Vikash Agarwal from NIPAM, Government of India was the speaker. In this event 144 student members 61 staff members of the institute attended the event. The banner and some snapshots have been provided below.

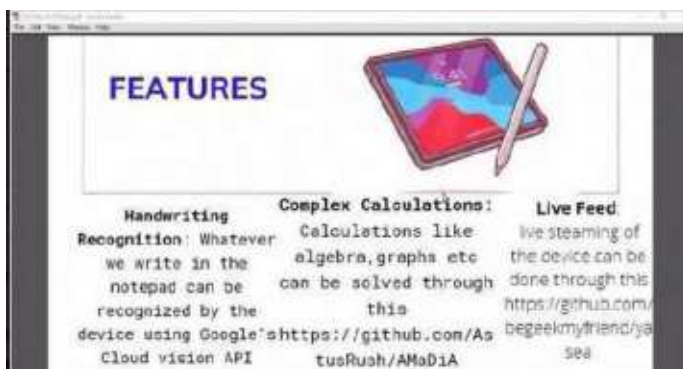


NURTURING INNOVATION

Date: 31st May, 2022

The Department of Basic Science in collaboration with IIC MCKVIE conducted an online programme (Zoom Platform) titled “Nurturing Innovation” on 31st May 2022 at 8:00 PM. The idea of conducting such an event started at around the month of December 2021, when each Class Coordinator informed the 1st year B. Tech. students about such a programme where they will be able to present their innovative ideas/prototypes, discuss its future prospects, process of patenting etc. The students were motivated to work in groups and think about new ideas and prepare a roadmap to get tangible outcomes or products.

Dr. Dipankar Ghosh, HOD Basic Science welcomed all participants. Dr. Ghosh requested Prof. Debapriya De to address the gathering and initiate the event. Around 35 members including faculty members were present for the programme. Three groups from ECE 1st year presented their ideas.



HOW TO PLAN FOR START-UP AND LEGAL & ETHICAL STEPS

Date: 31st May, 2022

How to plan for Start-up and legal & Ethical Steps is motivational speech program organized by start up club and IIC, MCKVIE on 31st May, 2022 in online Google Meet platform. Total 30 no. of students and 2 Faculty members participated in this event. The main objective of this event is how to plan for Start-up and legal & Ethical Steps. It was a dynamic workshop to plan for the legal steps, the various procedures and the associated merits and risks. The program is coordinated by Mr. Animesh Talapatra, Assistant Professor, AUE department, MCKVIE along with student coordinator Mr. Sabuj Golui.

Instagram Link: <https://www.instagram.com/p/CeMZ-IZhI-I/?igshid=YmMyMTA2M2Y=>



WORLD ENVIRONMENT DAY

Date: 5th June, 2022

Rotaract Club of MCKVIE in collaboration with the Institution Innovation Council IIC, MCKVIE, and NSS unit organized a webinar on the eve of world environment day(5/6/22). The guest speaker Prof.(Dr.) Debapriya Dediscussed various threats about the environment such as Global-Warming, Ozone-Layer Depletion, Polymeric Waste, E-Waste, Pollution, etc. Speaker also enlightened the ways to Protect Nature and Promote Sustainable Development. A Quiz and poster competition was organized to know how far they know about their environment. The students were given 15 questions based on Environment and the winners were declared after the webinar. About 96 students and staff participated in the webinar. On 6/6/22, we also organized a sapling plantation event where students along with faculty members of our Institute participated to plant saplings in college campus.

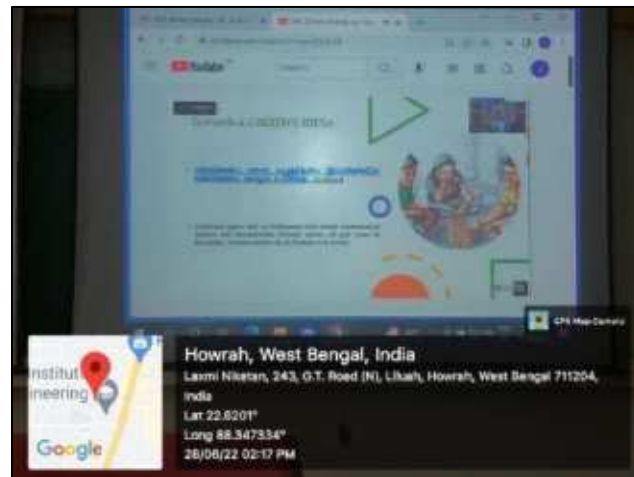




OUT OF THE BOX THINKING FOR PROBLEM SOLVING

Date: 28th June, 2022

Institution Innovation Council, MCKVIE has participated in MIC driven activity on '**Out of the box thinking for problem solving**' on **28th June 2022**. The programme was organized at the room number B 312. The topics focused on solving the problem in a different and easy way. It was discussed in the session to identify the problem, structuring and creative solution of the problem. The session was very exhaustive, and participants got awareness about diverse techniques to solve the problem. This session encouraged the participants to develop their design thinking skill in various aspects of problem solving. In nutshell, through this session, participants were exposed and were encouraged to generate and execute their own design thinking idea.



WORKSHOP ON ANGEL INVESTMENT OR VC FUNDING OPPORTUNITY FOR EARLY STAGE ENTREPRENEURS

Date: 18th August, 2022.

One day Workshop on, “Workshop on Angel investment or VC funding opportunity for early stage entrepreneurs” was organized by The StartUp Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 18th August, 2022. The speaker in this event was Mr. Anamitra Ghosh, Innovation Manager, LINK Innovations, Independent Business and Mr. Ravi Ranjan, Entrepreneurship Evangelist, Startup Expert, Govt., Advisor, Global Startup Ecosystem. The program was done in online Google Meet platform.

The poster features logos for MCKVIE, IEC MCKVIE, and the StartUp Club at the top. The main title is "The StartUp Club by MCKVIE". Below it, it says "In collaboration with Innovation & Entrepreneurship Development Center of MCKVIE presents a session on". The session title is "Angel investment or VC Funding Opportunity for Early Stage Entrepreneur". Two speakers are listed: Mr. Anamitra Ghosh (Innovation Manager, LINK Innovations, Independent Business Consultant, Mentor of Change, Atal Innovation Mission, NITI Aayog) and Mr. Ravi Ranjan (Entrepreneurship Evangelist, Startup Expert, Govt. Advisor, Global Startup Ecosystem, Policy Advocacy, 2x TEDx Speaker, Public Speaker). The date and time are 18TH AUG 2022 at 07:00pm ONLINE. A red box contains the meeting link: meet.google.com/uzm-ijnv-cwb. At the bottom, contact information for Sabuj Golui (+91 7431074211, Student event Co-ordinator) and Mr. Sourav Ghorai (+91 89000 22915, Faculty event Co-ordinator) is provided, along with social media handles @IICMCKVIE.

The StartUp Club by MCKVIE
In collaboration with
Innovation & Entrepreneurship Development Center of MCKVIE
presents a session on
**"Angel investment or VC Funding Opportunity for
Early Stage Entrepreneur"**

Speaker
Mr. Anamitra Ghosh
Innovation Manager | LINK
Innovations | Independent Business
Consultant | Mentor of Change | Atal
Innovation Mission, NITI Aayog

Speaker
Mr. Ravi Ranjan
Entrepreneurship Evangelist, Startup
Expert, Govt. | Advisor | Global
Startup Ecosystem | Policy Advocacy,
2x TEDx Speaker | Public Speaker

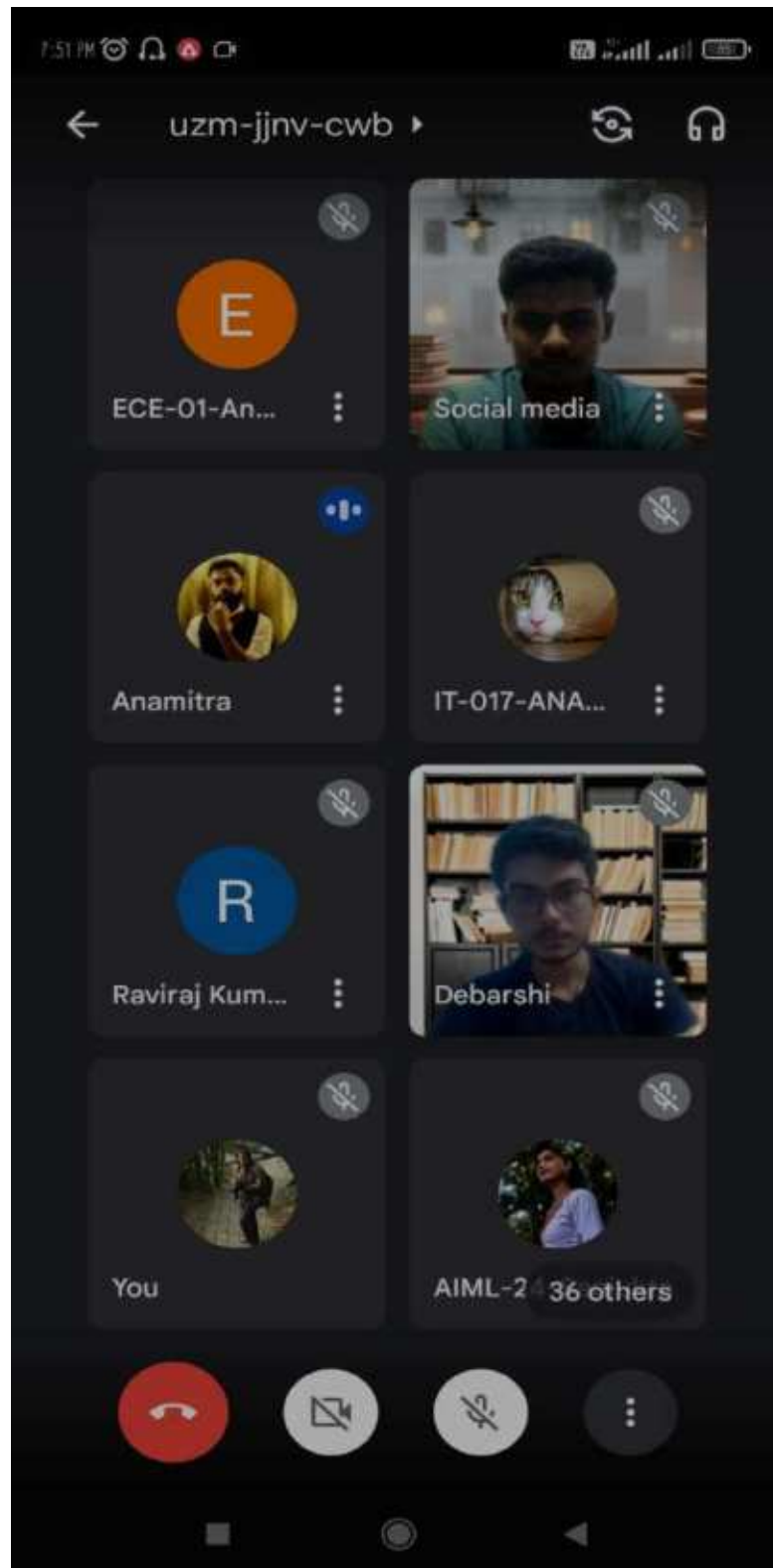
18TH AUG 2022
07:00pm
ONLINE

Meeting Link :
meet.google.com/uzm-ijnv-cwb

+91 7431074211
Sabuj Golui
Student event Co-ordinator

+91 89000 22915
Mr. Sourav Ghorai
Faculty event Co-ordinator

@IICMCKVIE



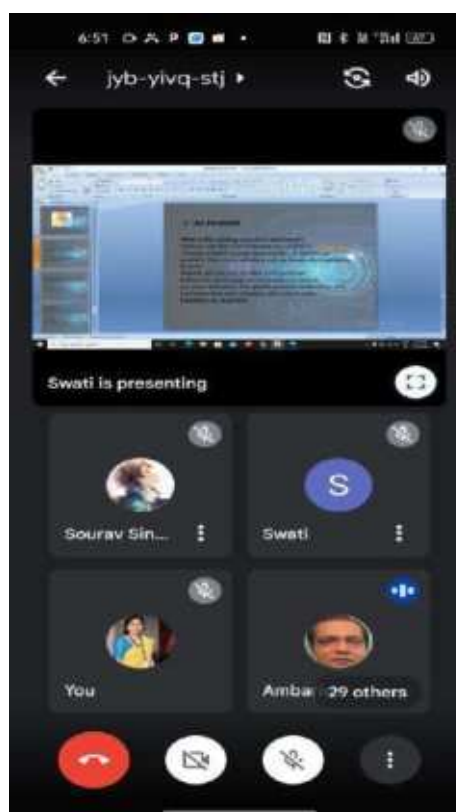
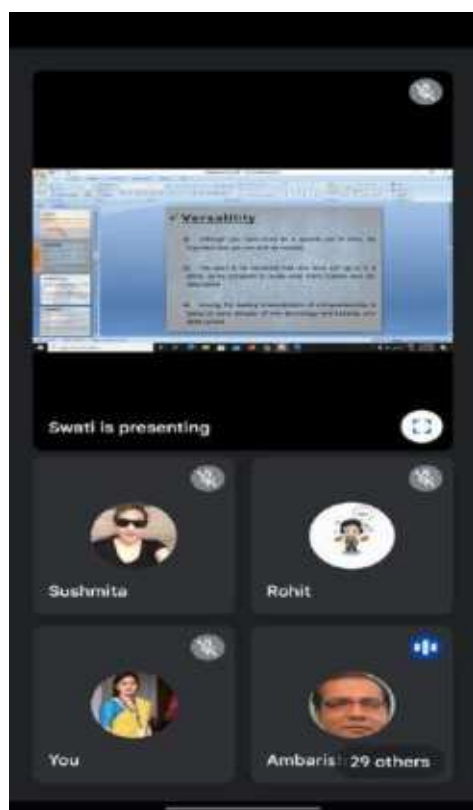
SESSION ON ACCELERATORS/ INCUBATION- OPPORTUNITIES FOR STUDENTS & FACULTIES- EARLY STAGE ENTREPRENEURS

Date: 19th August, 2022

Institution Innovation Council IIC, MCKVIE organized a session on Accelerators/ Incubation- Opportunities for Students & Faculties- Early Stage Entrepreneurs on the eve of Entrepreneurship day on 19/08/22 at 6 pm. The guest speaker Mr. Ambarish Chatterjee, Education Officer of MCKC group discussed different key characteristics and ten traits of a successful entrepreneur. This workshop is aimed to spark the entrepreneurial spirit in the budding innovators by guiding them on how to convert their Innovative Ideas and emerge as successful Entrepreneurs. About 76 students and staff participated in the webinar.

- Facebook link: <https://www.facebook.com/IICMCKVIE>
- Instagram link: <https://www.instagram.com/iicmckvie/>
- Tweeter link: <https://twitter.com/IICMCKVIE>

YouTube link: <https://www.youtube.com/channel/UCvoJ9pKVVxHnQhHqc0-L5NQ>



WORLD ENTREPRENEURS DAY

Date: 21st August, 2022

On the eve of World Entrepreneur Day on August 21, 2022, the Rotaract Club of MCKVIE, in association with the Institution Innovation Council IIC, MCKVIE, and the NSS unit, conducted a webinar. Amitabh Mohan, the founder and director of HLS India, was the featured speaker. August 21 is set aside for honoring successful business people. In addition to promoting entrepreneurship, innovation, and leadership, Mr. Mohan spoke on the significance of World Entrepreneurs Day. Entrepreneurs are crucial to market economies because they may drive the nation's economic expansion. They encourage new employment by developing new goods and services, which ultimately accelerates economic growth. MCKVIE personnel and students were present, which contributed to the success of the webinar.

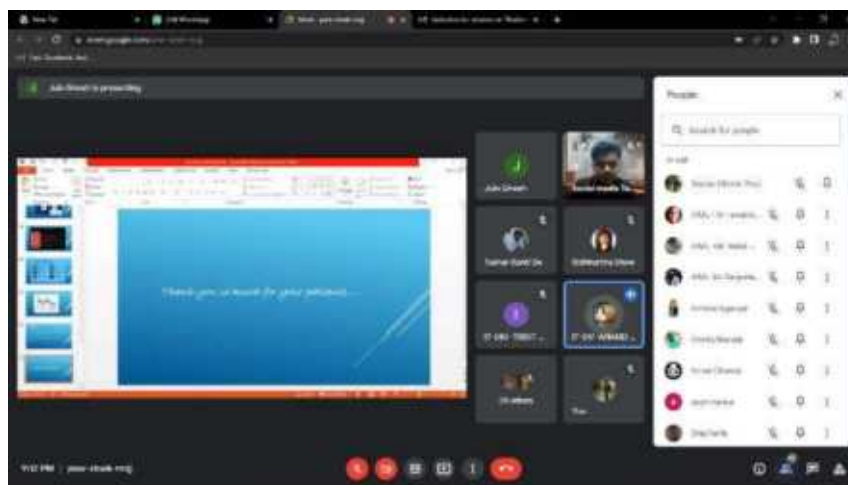
Facebook: https://m.facebook.com/story.php?story_fbid=306917744986802&id=112887131056532



BUSINESS MODEL CANVAS (BMC)

Date: 29th August, 2022

One day Workshop on, “**Business Model Canvas (BMC)**” was organized by The StartUp Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 29th August, 2022 in online Google Meet platform. About 60 students and 5 staff members was participated in the webinar. Dr. Juin Ghosh Sarkar, Assistant Professor, Management Science and Humanities, MCKVIE was speaker in this event.



About the College

MCKV Institute of Engineering is one of the top engineering colleges in West Bengal established more than two decades ago (since 1999) with a vision to foster the spirit of technological learning and its application through creating the right kind of opportunity and ambience for educating young minds in the digital era. The Institute has been accredited by NAAC with an 'A' Grade, and it is an Autonomous Institute affiliated to MAKAUT, WB and approved by AICTE. It offers core and applied engineering programmes like: Mechanical Engineering, Electrical Engineering, Computer Science Engineering, Electronics and Communication Engineering, Information Technology and last but not the least a very niche stream that is Automobile Engineering, some of which are accredited by NBA. Besides, M. Tech in Electronics and Communication Engineering (with specialization in Communication) is being conducted to encourage students in higher studies for over 10 years.

With the confidence of her illustrious track record and with the support of autonomy, MCKVIE has stepped in to launch three new B. Tech courses viz. CSE (Data Science), EC (VLSI Design) and Artificial Intelligence & Machine Learning (AI&ML) along with a PG course in the field of Management, MBA (Business Analytics) where the curricula are designed to accommodate the trending need of the Industry.

The Institute is always committed to provide quality education to cater to the diversified needs of the industry and encourage research works as well for the society at large. Its State-of-the-art infrastructure, industry-academia collaborations, experienced senior faculty and rigorous hands-on training sessions, transform students into industry-ready professionals. For more than 20 years, MCKVIE has been known for its spirit of excellence that transforms students into intellectuals, where faculty works with the students to engineer solutions and encourage exploration across disciplines. Critical thinking and networking is the main focus – on campus, off campus and after graduation.

From the Principal's desk



It is my immense pleasure encouraging creation of 'Institution's Innovation Council (IIC) which is an initiative of Ministry of Education's Innovation Cell (MIC) for fostering the culture of innovation amongst higher education Institutes. The Innovation Council was established to promote innovation in the Institution among the young students to work on new ideas and to familiarize them with concepts of improving products and services to the market, increasing efficiency and product's profitability.

The main aim of IIC is to conduct various activities related to innovation, entrepreneurship, IPR and startups in collaboration with academicians, entrepreneurs, investors, professionals for creating a mentor pool for student innovators. In order to achieve this aim, IIC holds motivational sessions, workshops to familiarize our students with the concept of ideation, innovation, start-ups and entrepreneurship. IIC members regularly organize and attend sessions on Entrepreneurship, Innovation as Career Opportunity, IPR and IP Management to make them familiar with the know how to pitch new ideas and get funding. Such interactive sessions channelize the energy of young students and motivate them to work on new ideas, create start-ups and entrepreneurial ventures resulting in self-employment. The Innovation Council is always there to solve student's creative problem and entrepreneurial mind-set, and therefore promoting a strong intra and inter-institutional partnerships among the students and faculty members.

My heartfelt gratitude to **Mr. Kishan Kumar Kejriwal**, Hon'ble Chairman of MCKV Institute of Engineering for inspiring us to remain creative in our ideas and innovative in our actions. I would also like to thank Dr. Prasenjit Chatterjee, President of IIC and Prof. (Dr.) Amit Phadikar Co-ordinator of IIC for supporting us as we continue to direct our actions towards adapting to the new domains. My greetings to the team members of IIC who have contributed towards successful implementation of the vision of the Council. Let us continue to innovate, adapt and excel to remain competitive and resilient in the face of new challenges!

alohu

Prof. (Dr.) Abhijit Lahiri

Institute Innovation's Council: Inspiring Ideas to Innovate & Change



The Ministry of Education with the vision of creating and promoting the culture of innovation amongst institutions of higher education has founded the MOE's Innovation Cell. As the Convener of Institute's Innovation Council (IIC), it has been my pleasure to witness the growth of IIC of MCKVIE. IIC has made all efforts to enhance the culture of innovation and entrepreneurship by organizing various activities like Motivational Journey of Innovators and Entrepreneurs.

The Institute's Innovation Cell (IIC) is actively instrumental in providing opportunities to students and faculty and to innovate and ideate through competitions like Idea Competition and Internal Software Hackathons. True to the spirit of MIC, the primary goal of IIC has been to empower minds and cultivate innovative ideas that can be useful to the society. The opportunities provided by MIC have been extremely enriching in enabling the students and faculty to ensure organic growth in terms of innovation.

I am indebted to Principal, Prof. Abhijit Lahiri, for his continuous encouragement and support. In addition, I express my sincere appreciation to all the faculty members and students other respected members of IIC associated with the council who have made this journey memorable and fruitful with their hard work. I hope that we can continue to inspire this zeal to innovate for the betterment of our society.



Dr. Joydeep Banerjee

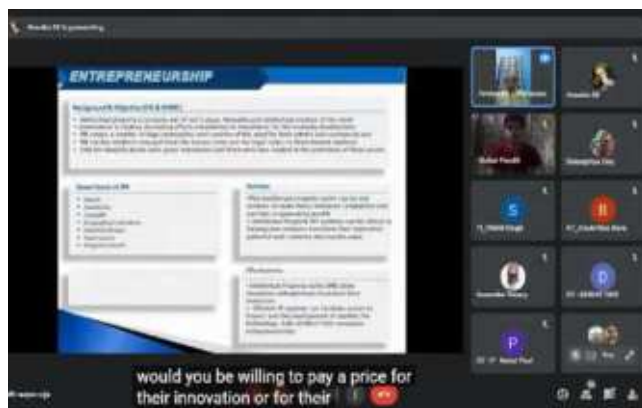
Convener, IIC, MCKVIE

**Reports of the program
organized by IIC, MCKVIE
*(Sep 21-Aug 22)***

IPR & IP MANAGEMENT FOR INNOVATION AND STARTUPS

Date: 21st September, 2021

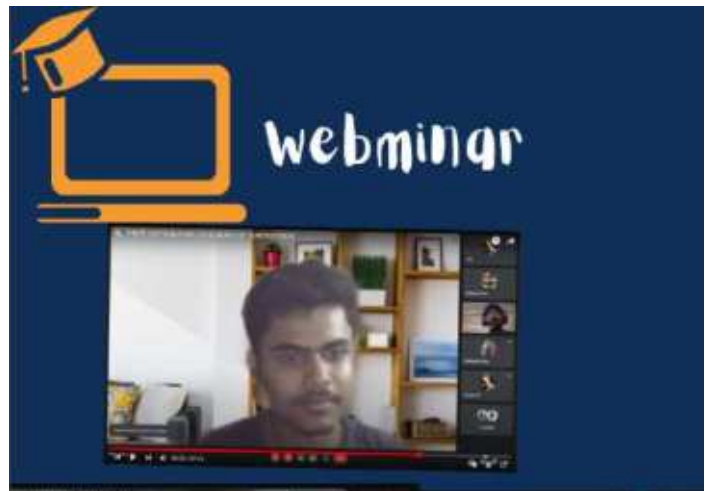
One day Mentoring Session on, “IPR & IP Management for Innovation and Startups” organized by the Start Up Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 21.09.2021 using Google meet online platform and YouTube live session. The speaker of this event was Mr. Ambarish Chatterjee, Education officer of MCKV group. Overall 147 no. of student members and 2 faculty members have successfully attended this event.



EUREKATHON

Date: 23rd to 26th September, 2021

The Startup Club by MCKVIE & the Coders Club by TSC organized EUREKA-THON where participants can showcase their skills and build cool projects. Hackathons are a great opportunity for learning and developing ideas. The theme is Web development & App Development. Participants are benefitted by learning new skills as well as get an opportunity to brush up on your existing knowledge, learning how to develop ideas and build their own projects and exposure and get to connect with new people.



MCKVIE HACKATHON

Date: 10th October, 2021

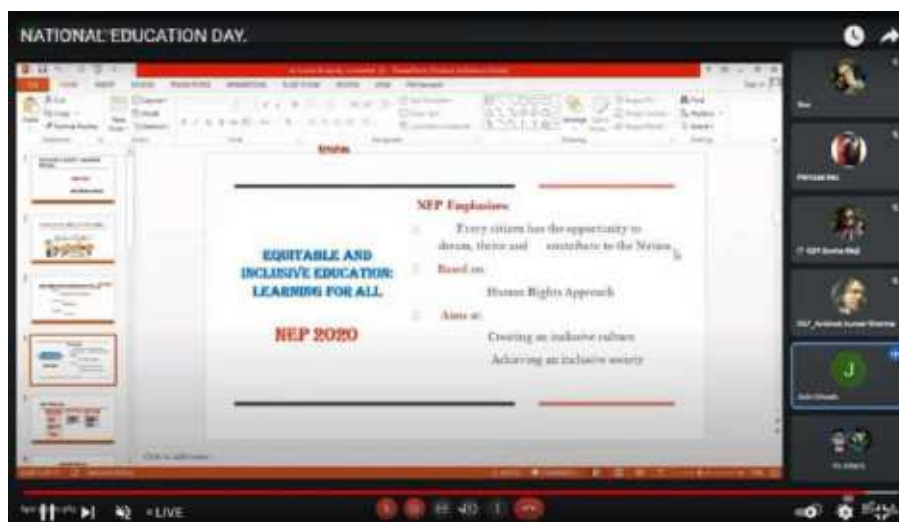
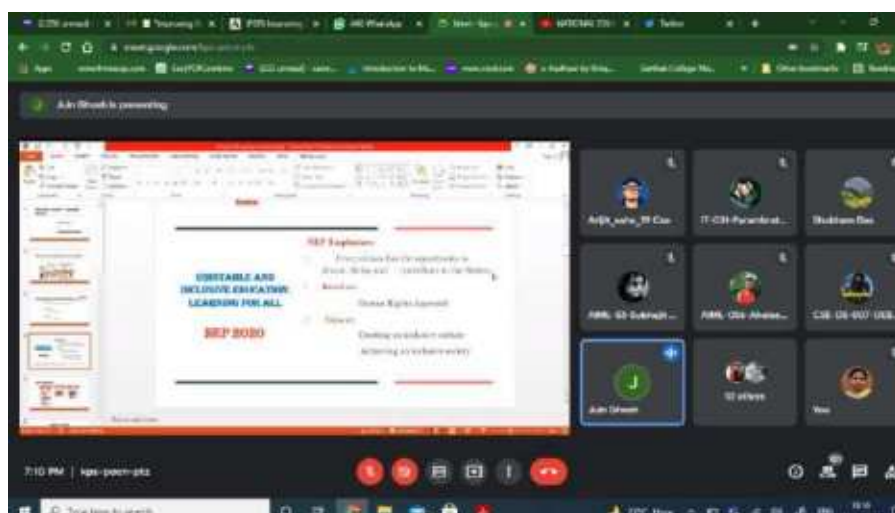
MCKVIE HACKATHON 2021 was organised on 10th October, 2021. The event was organised online on Google meet platform. Mr. Subham Saha a start-up enthusiast organised the entire event. Over 100 students have successfully attended in this webinar.



NATIONAL EDUCATION DAY CELEBRATION

Date: 11th November, 2021

RCMCKVIE along with Institute Innovation Council celebrated National Education Day on 11th November, 2021 in virtual mode. We arranged a webinar on new education policy, NEP 2020. Mrs Juin Ghosh Sarkar was the speaker of the day. More than 200 participants were participated in this webinar. Google meet and YouTube live was the way of organizing the webinar.



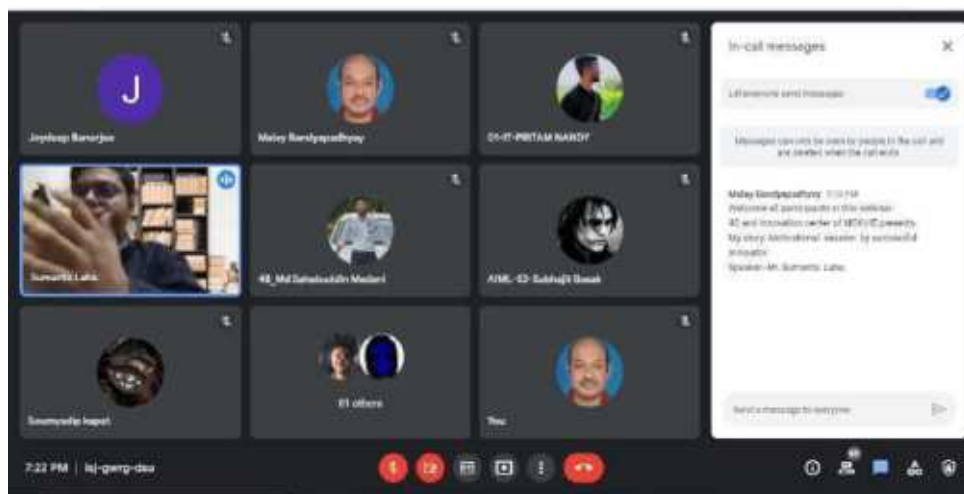
MY STORY-MOTIVATIONAL SESSION BY SUCCESSFUL INNOVATOR

Date: 13th November, 2021

An online session of Innovation Centre of MCKVIE with collaboration of Institution's Innovation Council was organized on 13th November, 2021 at 7 pm through Google meet platform. Approximately 90 participants (students and faculty members) attended on this event. The session was chaired by Mr. Sumanta Laha, Innovator and researcher on cardiovascular fluid mechanics.

It was a highly motivational talk and the topic was “My story-Motivational Session by successful Innovator.” The speaker was as alumni of this institute in the Mechanical Engineering department. So, the student community received a vivid insight of innovation, research and invention. The detailed discussion helped them understand the opportunity of innovation during their B.Tech studies.

The speaker was awarded SITARE-GYTI national award 2020 for the work titled “An Automated Cardiovascular Replicator for Online Assessment of Cardiac Assist Devices, Prosthetics and beyond” with financial grant from BIRAC. The video demonstration of this work was discussed by him and the students are highly motivated by this work. At last, Mr. Laha motivated and assured the students to assist any types of research and innovation activities that will be carried by them.

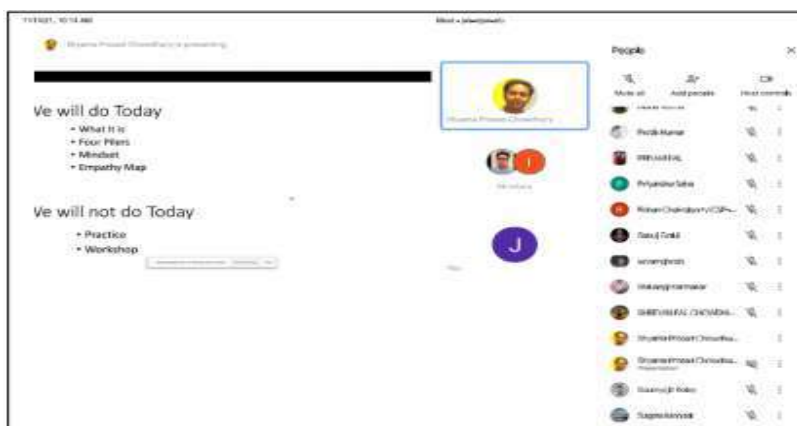


PROBLEM SOLVING AND IDEATION WORKSHOP- DESIGN THINKING PROCESS

Date: 14th November, 2021

Institution Innovation Council in collaboration with Startup Club and Innovation & Entrepreneurship Development Center organized a workshop on 'Problem Solving and Ideation -Design Thinking Process' on 14th November 2021.

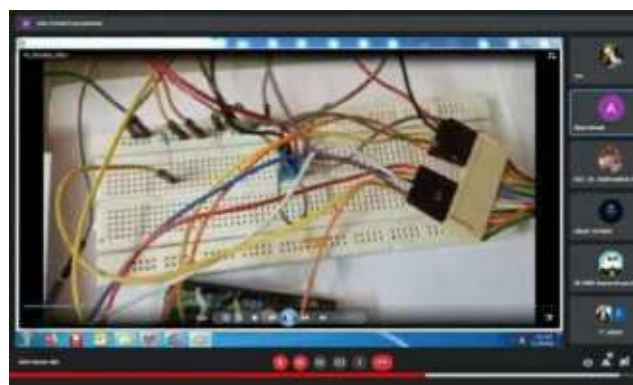
Dr. Shyama Prasad Chowdhury, Sr. Manager, IBM India Private Limited discussed about different aspects of Design thinking process. He enlightened the students about Ideation process, the importance of teamwork. He focused on several topics Data Analytics, Big Data Management, Machine Learning, and Intelligent Transportation Systems. He also encouraged the students to take up free lancing projects through Internet and how they can get experience. The workshop was very exhaustive, and students got awareness about diverse opportunities available in this field. In nutshell, through this workshop, students were exposed and were encouraged to generate and execute their own ideas.



INNOVATION AND ENTREPRENEURSHIP ANNUAL DAY AND INNOVATION DAY CELEBRATIONS

Date: 29th November, 2021

The Start Up Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE has jointly organized Innovation and Entrepreneurship Annual day and Innovation day celebrations for birthday celebration of Dr. APJ Abdul Kalam on 15th October). Mr. Ajoy Ghoshal, Faculty-in-charge, Innovation Cell MCKVIE, delivered his valuable speech on that day. The program was organized on Google meet platform. Total 160 numbers of student and 6 faculty members participated in this event.



INTERNSHIP AT INNOVATION & START-UP CENTRE/START-UPS/INCUBATION UNIT

Duration: September, 2021 to November, 2021

Students of MCKVIE performed research and internship in different startup centre and incubation unit during September to November, 2021. Mr. Saikat Dutta from ME department have done internship in on-field internship at Flipkart Sankrail FC during 13th September to 27th October, 2021. Here he was assigned at the RC (Return Centre) department. There are many departments like Inbound, Outbound, Picking, Putting, and Packing. His role in the RC department was to process the return product. There are two types of return product one is RTO (Return to Origin) and another is RVP (Reverse Process). He uses to process the RTO which means the product did not reached the customers hand. It was either undelivered or was on wrong location. After checking the product in my system it is passed if it is ok or if it is found tampered or fraud then it is fail. After the process it is put listed in tote then the pass product is taken by the put list department and it is kept in the inventory. The fail product contains many bulk like fraud bulk, damage bulk, non damage bulk and disposal bulk. The bulk is shown in the device. According to him, it was an overall great experience. From where he gained knowledge how an E commerce company runs which will surely help in future to create a startup like this and also provided a great innovative idea for the startup.

Ms. Sonal Jaiswal from IT department has done internship on researching and extracting database for prospective clients during 13th August to 13th October, 2021. Contacting clients via mail, LinkedIn, Face book, etc and converting leads into sales. Suggest and implement new sales plans and advertising for higher number of conversions.

Biplab Kundu, Yashodhara Banerjee, Lisa Karar & Saheli Nag from ECE department doing work on alternative to the traditional Wheatstone Bridge Pressure Sensors, by using Basic Current Mirror Sensing technique to design efficient high sensitivity CMOS-MEMS Integrated Pressure Circuit. The pressure sensing technique is based on Piezoresistive effect of the MOSFET. In the design of the MEMS Pressure Sensor, three identical n-MOSFETs are used that are connected in current mirror configuration. The three MOSFETs have different uses. The input transistor from the current mirror circuit is used as reference and it is the constant current source in the circuit. Two of the other transistors are placed on the edge and center of the diaphragm. These two transistors help in sensing the tensile stress developing on the diaphragm. This pressure sensing circuit uses the Piezoresistive effect on MOSFETs to sense the stress in miniaturized form of equipment. The analytical models help in calculating the strain induced carrier mobility variation under applied pressure. Output voltage across the sensing MOSFET is simulated under different pressure value. Results based on circuit simulation show that the sensitivity of this current mirror-based circuit is higher than that of the Wheatstone bridge configuration. This sensor is applicable for the automobile industry and in the

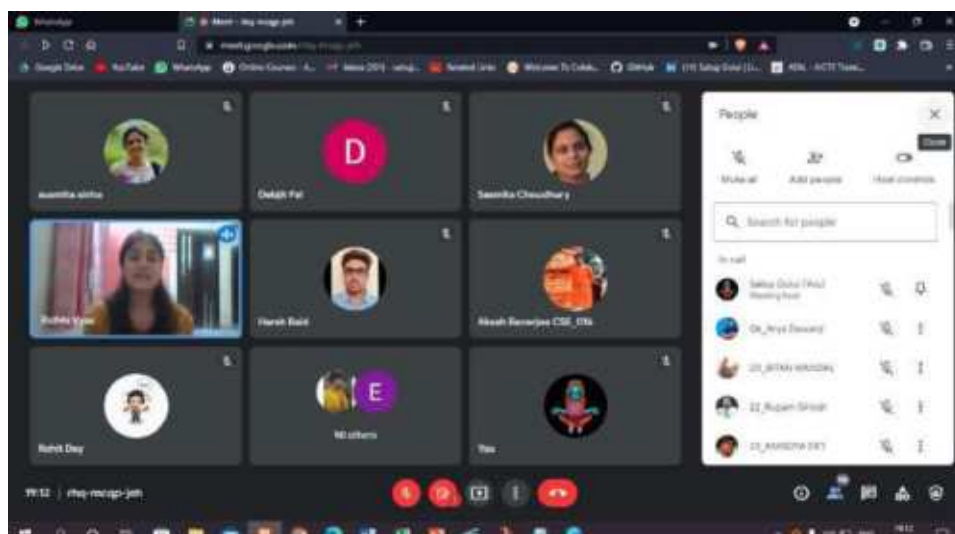
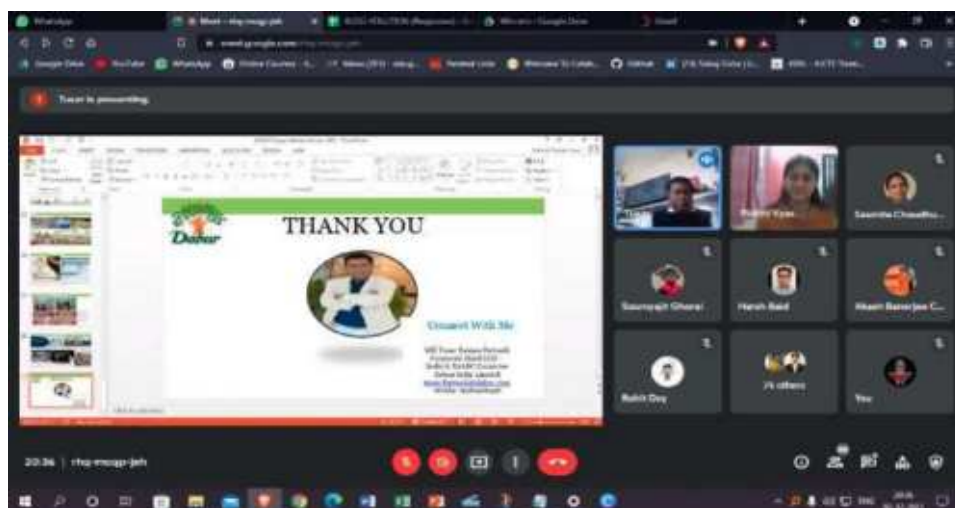
medical electronics field. This work is presented on “Student Paper Contest-2021” organized by the IEEE Solid-State Circuits Society, Kolkata Chapter, held on 3rd October, 2021 in Virtual Mode.



NATIONAL POLLUTION CONTROL DAY CELEBRATION

Date: 2nd December, 2021

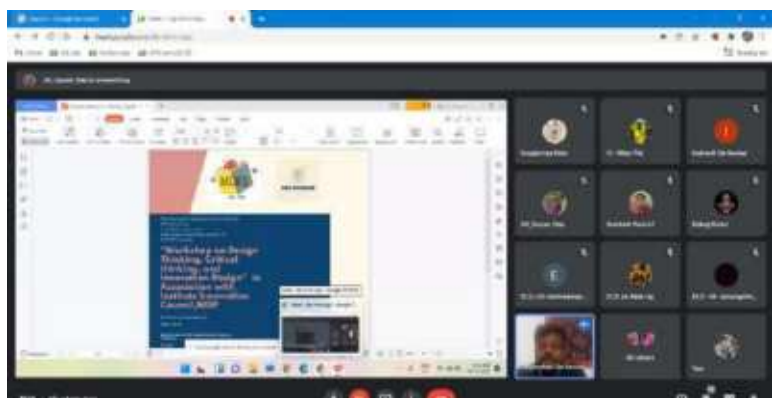
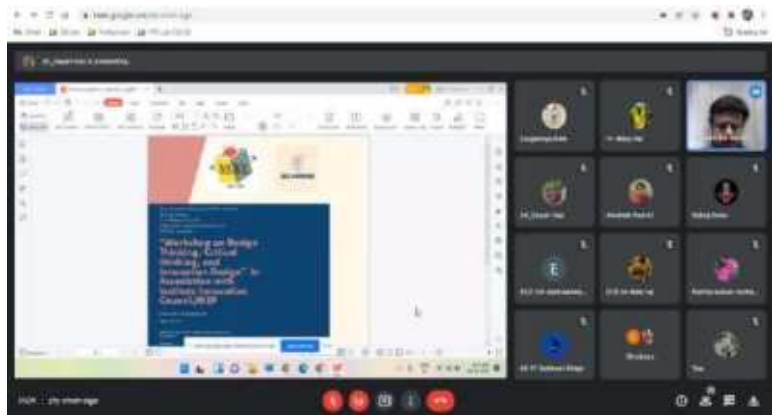
RC MCKVIE along with Institute Innovation Council celebrated National Pollution Control day on 2nd December, 2021 in virtual mode. We organized a webinar on this aspect. Mr. Soumyajit Ghora, Assistant professor, MCKVIE, discussed on different types of pollution, its causes and effects and major steps to handle it. Mr Tushar Ranjan Pattnaik, Corporate Head-EHS & Plastic Waste Management, Dabur India Limited (India & SAARC Countries), extended our vision on “Plastic Management journey in India”. He discussed about how to handle this greatest pollutant for our country and the major steps towards recycling of plastics. More than 200 participants were participated in this webinar. Google meet and YouTube live was the way of organizing the webinar.



WORKSHOP ON DESIGN THINKING, CRITICAL THINKING, AND INNOVATION DESIGN

Date: 05.12.2021

The Innovation Centre of MCKVIE and Institute's Innovation Council of MCKVIE jointly organized the workshop on Design Thinking, Critical thinking, and Innovation Design on 5th December, 2021. Mr. Rajmohan De Sarkar, Technical Director of Ardent Computech Pvt Ltd was delivered his valuable speech in this program. The program was organized on Google meet platform and Youtube live streaming was also available. Total 85 numbers of student and 16 faculty member was participated in this event.

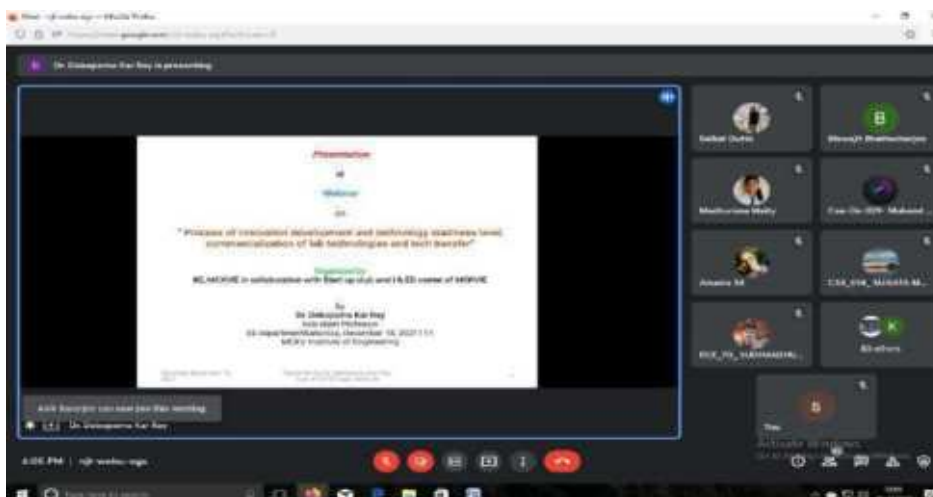
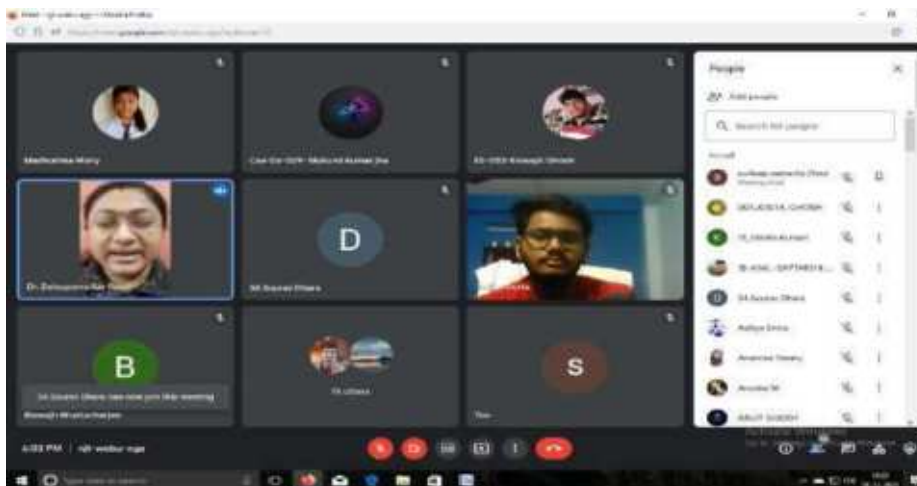


PROCESS OF INNOVATION DEVELOPMENT & TECHNOLOGY READINESS LEVEL (TRL) & COMMERCIALIZATION OF LAB TECHNOLOGIES & TECH TRANSFER

Date: 18th December, 2021

IIC Center, MCKVIE in collaboration with Startup Club and I & EDC was organized a webinar on "Process of Innovation Development & Technology Readiness Level (TRL) & Commercialization of Lab Technologies & Tech Transfer" on 18th December, 2021 at 6 P.M. The Program is coordinated by Mr. Sudeep Samanta, Assistant Professor, EE Department, MCKVIE.

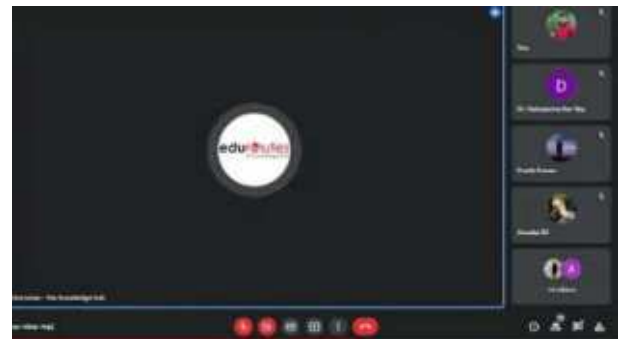
In this webinar, Dr. Debopama Kar Ray, Assistant professor, EE Department, MCKVIE, have played the role of speaker. More than 100 participants were participated in this webinar. The program was organized in Google meet platform. Successful participates are awarded by Certificates.



FUNDING OPPORTUNITIES FOR INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT

Date: 9th January, 2022

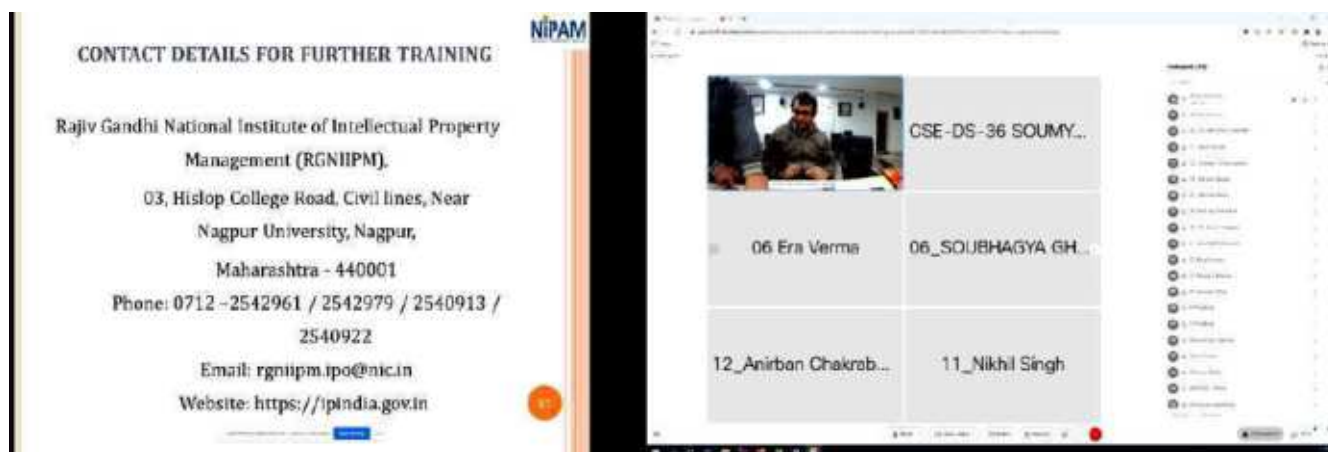
One day workshop on "Funding Opportunities for Innovation and Entrepreneurship Development" was organized by The Start Up Club by MCKVIE, Institute Innovation Council, MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 9th January, 2022. The speakers were Dr. ASHISH KHANNA, and Dr. SHIVANI GUPTA. The platform used was Google meet and YouTube. 170 Student attendees and 4 Faculty attendees were present.



INTELLECTUAL POPERTY RIGHTS (IPRS) AWARENESS PROGRAMME

Date: 12th January, 2022

One day seminar on "Intellectual property rights (IPRs) Awareness programme "was organized jointly by Institute Innovation Council, MCKVIE , NIPAM and Ministry of Commerce, Govt. of India on 12th January, 2022. The speaker was Mr. Arnab Bhattacharyya, Examiner of Patents and designs, Patent Office, Kolkata. The platform used was Webex. 846 Staff and Student attendees of the institute were present.



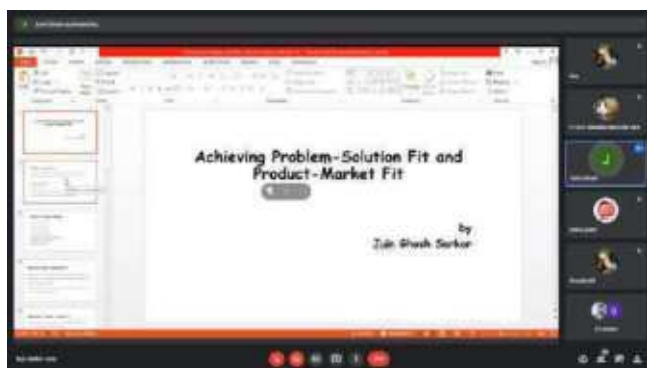
ACHIEVING PROBLEM-SOLUTION FIT & PRODUCT-MARKET FIT

Date: 12th February, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on "Achieving Problem-Solution Fit & Product-Market Fit" on 12th February, 2022 from 6 P.M to 7 P.M via Google Meet online platform. The program is coordinated by Mr. Soutrik Bose, Assistant Professor, ME department, MCKVIE.

The purpose of the event is to give the budding student entrepreneurs the knowledge on "Achieving Problem-Solution Fit & Product-Market Fit". The topic mainly highlighted the very contemporary issue of Problem Solution and Product Market Fit, which is actually the main formula for the survival of the product in the market for the long run. Consumer Behavior has emerged as a distinct sub-discipline of marketing management since 1950. Problem-solution Fit is a stage that actually proves the existence of a problem and has designed a value proposition that addresses the customers' jobs, pains, and gains. It occurs when we have evidence that customers care about certain jobs, pains, and gains. Product-market fit means that the product is placed in a good market with other products that can satisfy that market. When an entrepreneur identifies a need in the market and builds a solution that customers want to buy, that's product-market fit. This occurs when we have evidence that our value proposition is actually creating value for customers by alleviating their pains and creating the gains they desire.

Ms. Juin Ghosh Sarkar, Assistant Professor, Management Science and Humanities, MCKVIE delivered her valuable speech in this event. More than 90 students and 5 faculty members were participated in this webinar. Successful participants are awarded by Certificates.





The StartUp Club by MCKVIE

In collaboration with
Innovation & Entrepreneurship Development Center of MCKVIE
and Institution Innovation Council of MCKVIE
presents a session on

"Achieving Problem-Solution Fit & Product-Market Fit"



Speaker
Juin Ghosh Sarkar

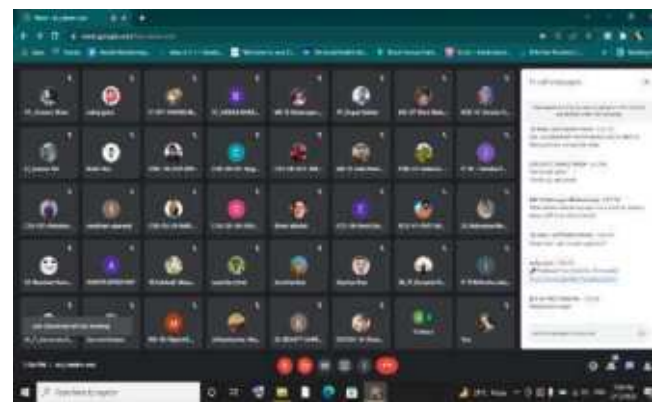
Assistant Professor, Management
Science and Humanities ||
M.Com from University of Calcutta ||
MBA (Finance) from WBUT ||
More than 12 years of
academic experience ||
4 years of industry experience.

12 July 2022
Time: 6:00 PM to 7:00 PM (IST)
Via Google meet & YouTube Live
<https://meet.google.com/hzj-dwkn-one>

+91 96301 12123
SOUTRIK BOSE
Faculty co-ordinator

+91 9802563257
ANUSKA SIL
Student co-ordinator

[f @thestartupclubbymckvie](https://www.instagram.com/thestartupclubbymckvie)



BRAINRUSH 2K22

Date: 12th February, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on "Brainrush 2K22" on 12th February, 2022. The program is coordinated by Mr. Sumit Majumdar, Assistant Professor, CSE department; MCKVIE along with student coordinator Soujanya Deb. Brainrush is an intra-college competition that checks critical thinking ability of students. The benefits obtained from this event are critical thinking, out of the box thinking, cope up with sudden situation, public speaking, team work, leadership quality.

Total no. of 501 students and 12 faculty members were participated in this contest. Successful participants are awarded by Certificates.



PROTOTYPE/PROCESS DESIGN AND DEVELOPMENT – PROTOTYPING

Date: 13th March, 2022

The Start Up Club by MCKV Institute of Engineering in collaboration with AICTE-NISP, Innovation & Entrepreneurship Development Centre of MCKV Institute of Engineering and Institution's Innovation Council organized a session on " Prototype/Process Design and Development - Prototyping " on 13th March, 2022 on 13th March, 2022 Time: 06:00 PM to 07:00 PM. The program is coordinated by Mr. Soutrik Bose, Assistant Professor, ME department, MCKVIE along with student coordinator Anuska Sil. The speaker of this event Mr. Shamik Guha, Team Lead at Altor. Altor is a smart mobility company that attempts to prevent and detect accidents on the road. Currently, it offers India's first range of smart headgears with behaviour-modification & accident detection capabilities among others. It recently got featured in the prestigious show Shark Tank India that aired across Sony Entertainment Television Network over the past few weeks.

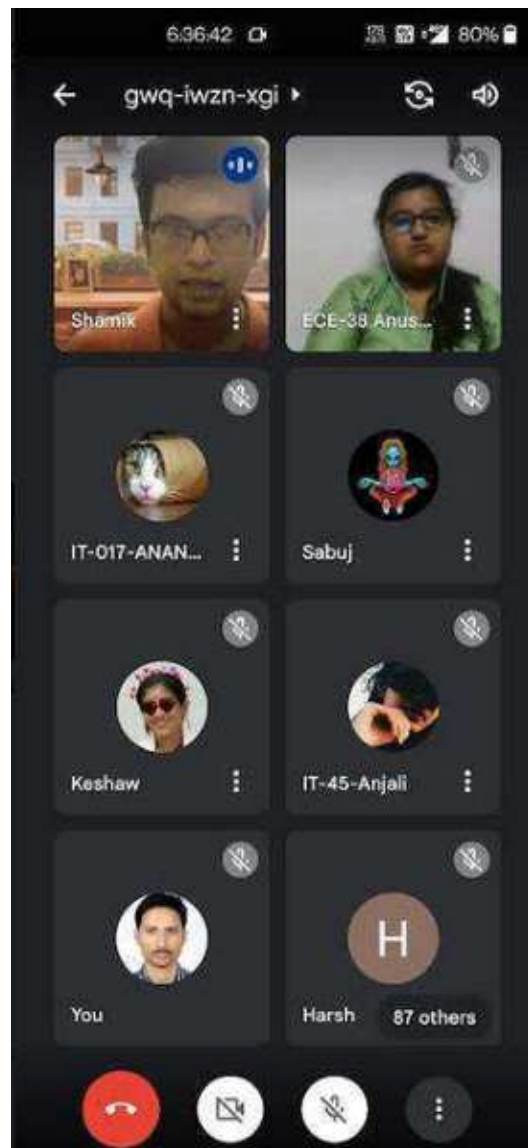
Google meet: <http://meet.google.com/gwq-iwzn-xgi>

YouTube live: <https://youtu.be/uywRcQSh2d8>

The main outcome of the session is how exactly a hardware product ideation and GTM strategy takes place in reality, the scrum model and the lean philosophy of building hardware products in today's world, along with notes on the challenges faced in the same.

Total no. of 170 students and 7 staff members were participated in this contest. Successful participants are awarded by Certificates.





TECHNOTICA 2021-2022

Date: 31st March, 2022

Technotica 2021-22 was held on 31st March, 2022. Initial call for projects was published on 3rd November 2021. After initial screening round, 12 teams (34 students) participated in the final round of competition. Students worked hard in implementation and demonstration of their projects. Participants presented their work in front of external judge and other students/faculties of the institute. Projects were evaluated on the basis of innovation, originality, practicability, understanding and presentation of work. Standings were decided by the external judge considering above mentioned criteria. In this event Dr. Dhritinandan Kole, Research & Development Executive, Eltron Wireless was presented as external judge. Total 12 no. of teams from various departments was participated in this event.

Following teams were awarded:

1. First prize:
Project name: Intelligent Cleaning Robot
Team Members: Neha Dolui, Soham Banerjee, Anubhab Mukherjee
2. Second prize:
Project name: Home from the Future
Team Members: Raunak Ghosh, Syeeb Uddin Mallick, Rahul Sapui
3. Third prize:
Project name: MEDIWELL - One App, Easy Life
Team Members: Pritam Bose, Sandip Chakraborty, Palash Bag

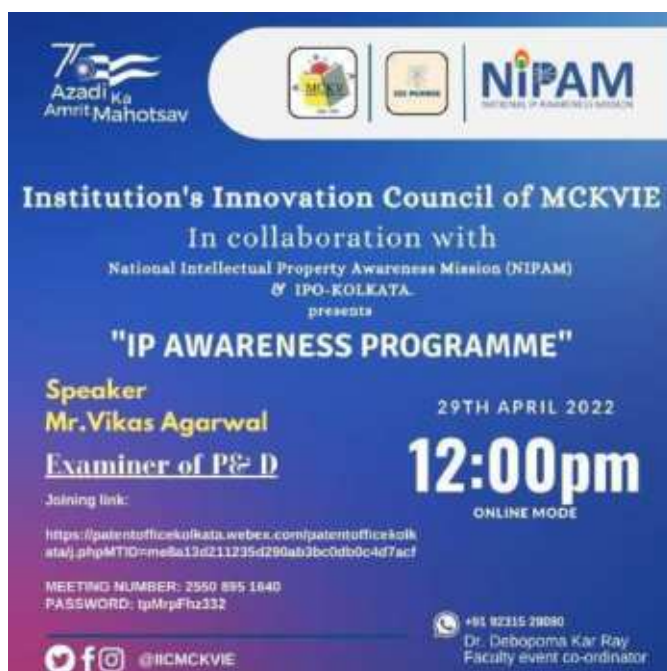
Consolation prizes for fourth & fifth positions were also awarded to the participants.



IPR AWARENESS PROGRAM

Date: 29th April, 2022

An IPR event has been conducted on 29th April, 2022, titled “IPR awareness program” at MCKVIE in online mode wherein speaker MR. Vikash Agarwal from NIPAM, Government of India was the speaker. In this event 144 student members 61 staff members of the institute attended the event. The banner and some snapshots have been provided below.

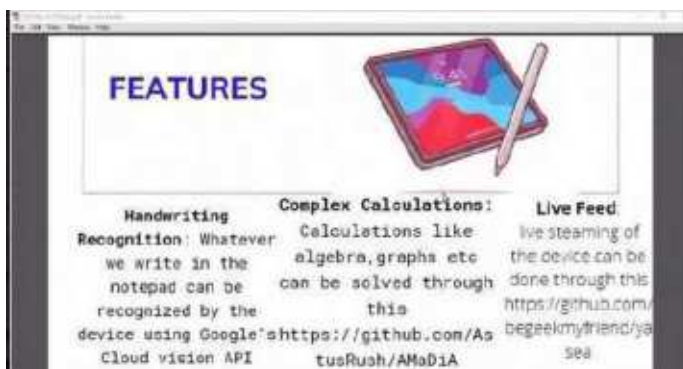


NURTURING INNOVATION

Date: 31st May, 2022

The Department of Basic Science in collaboration with IIC MCKVIE conducted an online programme (Zoom Platform) titled “Nurturing Innovation” on 31st May 2022 at 8:00 PM. The idea of conducting such an event started at around the month of December 2021, when each Class Coordinator informed the 1st year B. Tech. students about such a programme where they will be able to present their innovative ideas/prototypes, discuss its future prospects, process of patenting etc. The students were motivated to work in groups and think about new ideas and prepare a roadmap to get tangible outcomes or products.

Dr. Dipankar Ghosh, HOD Basic Science welcomed all participants. Dr. Ghosh requested Prof. Debapriya De to address the gathering and initiate the event. Around 35 members including faculty members were present for the programme. Three groups from ECE 1st year presented their ideas.



HOW TO PLAN FOR START-UP AND LEGAL & ETHICAL STEPS

Date: 31st May, 2022

How to plan for Start-up and legal & Ethical Steps is motivational speech program organized by start up club and IIC, MCKVIE on 31st May, 2022 in online Google Meet platform. Total 30 no. of students and 2 Faculty members participated in this event. The main objective of this event is how to plan for Start-up and legal & Ethical Steps. It was a dynamic workshop to plan for the legal steps, the various procedures and the associated merits and risks. The program is coordinated by Mr. Animesh Talapatra, Assistant Professor, AUE department, MCKVIE along with student coordinator Mr. Sabuj Golui.

Instagram Link: <https://www.instagram.com/p/CeMZ-IZhI-I/?igshid=YmMyMTA2M2Y=>



WORLD ENVIRONMENT DAY

Date: 5th June, 2022

Rotaract Club of MCKVIE in collaboration with the Institution Innovation Council IIC, MCKVIE, and NSS unit organized a webinar on the eve of world environment day(5/6/22). The guest speaker Prof.(Dr.) Debapriya Dediscussed various threats about the environment such as Global-Warming, Ozone-Layer Depletion, Polymeric Waste, E-Waste, Pollution, etc. Speaker also enlightened the ways to Protect Nature and Promote Sustainable Development. A Quiz and poster competition was organized to know how far they know about their environment. The students were given 15 questions based on Environment and the winners were declared after the webinar. About 96 students and staff participated in the webinar. On 6/6/22, we also organized a sapling plantation event where students along with faculty members of our Institute participated to plant saplings in college campus.

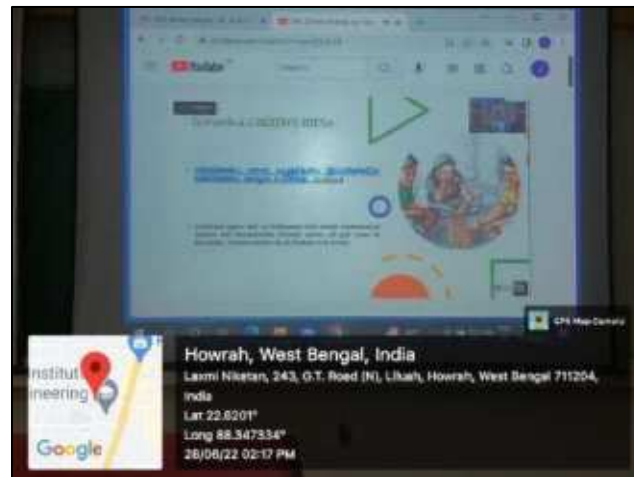




OUT OF THE BOX THINKING FOR PROBLEM SOLVING

Date: 28th June, 2022

Institution Innovation Council, MCKVIE has participated in MIC driven activity on '**Out of the box thinking for problem solving**' on **28th June 2022**. The programme was organized at the room number B 312. The topics focused on solving the problem in a different and easy way. It was discussed in the session to identify the problem, structuring and creative solution of the problem. The session was very exhaustive, and participants got awareness about diverse techniques to solve the problem. This session encouraged the participants to develop their design thinking skill in various aspects of problem solving. In nutshell, through this session, participants were exposed and were encouraged to generate and execute their own design thinking idea.



WORKSHOP ON ANGEL INVESTMENT OR VC FUNDING OPPORTUNITY FOR EARLY STAGE ENTREPRENEURS

Date: 18th August, 2022.

One day Workshop on, “Workshop on Angel investment or VC funding opportunity for early stage entrepreneurs” was organized by The StartUp Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 18th August, 2022. The speaker in this event was Mr. Anamitra Ghosh, Innovation Manager, LINK Innovations, Independent Business and Mr. Ravi Ranjan, Entrepreneurship Evangelist, Startup Expert, Govt., Advisor, Global Startup Ecosystem. The program was done in online Google Meet platform.

The poster features logos for MCKVIE, IEC MCKVIE, and a red circular logo with a white '4' in the top right corner. The main title is "The StartUp Club by MCKVIE" in bold black text, followed by "In collaboration with Innovation & Entrepreneurship Development Center of MCKVIE presents a session on". The session title is "Angel investment or VC Funding Opportunity for Early Stage Entrepreneur" in red text. Two speakers are listed: Mr. Anamitra Ghosh (Innovation Manager, LINK Innovations, Independent Business Consultant, Mentor of Change, Atal Innovation Mission, NITI Aayog) and Mr. Ravi Ranjan (Entrepreneurship Evangelist, Startup Expert, Govt. Advisor, Global Startup Ecosystem, Policy Advocacy, 2x TEDx Speaker, Public Speaker). The date and time are "18TH AUG 2022" and "07:00pm ONLINE". A red box contains the meeting link: "Meeting Link : meet.google.com/uzm-ijnv-cwb". At the bottom, contact information for Sabuj Golui (+91 7431074211, Student event Co-ordinator) and Mr. Sourav Ghorai (+91 89000 22915, Faculty event Co-ordinator) is provided, along with social media icons and the handle @IICMCKVIE.

The StartUp Club by MCKVIE
In collaboration with
Innovation & Entrepreneurship Development Center of MCKVIE
presents a session on
**"Angel investment or VC Funding Opportunity for
Early Stage Entrepreneur"**

Speaker
Mr. Anamitra Ghosh
Innovation Manager | LINK
Innovations | Independent Business
Consultant | Mentor of Change | Atal
Innovation Mission, NITI Aayog

Speaker
Mr. Ravi Ranjan
Entrepreneurship Evangelist, Startup
Expert, Govt. | Advisor, Global
Startup Ecosystem | Policy Advocacy,
2x TEDx Speaker | Public Speaker

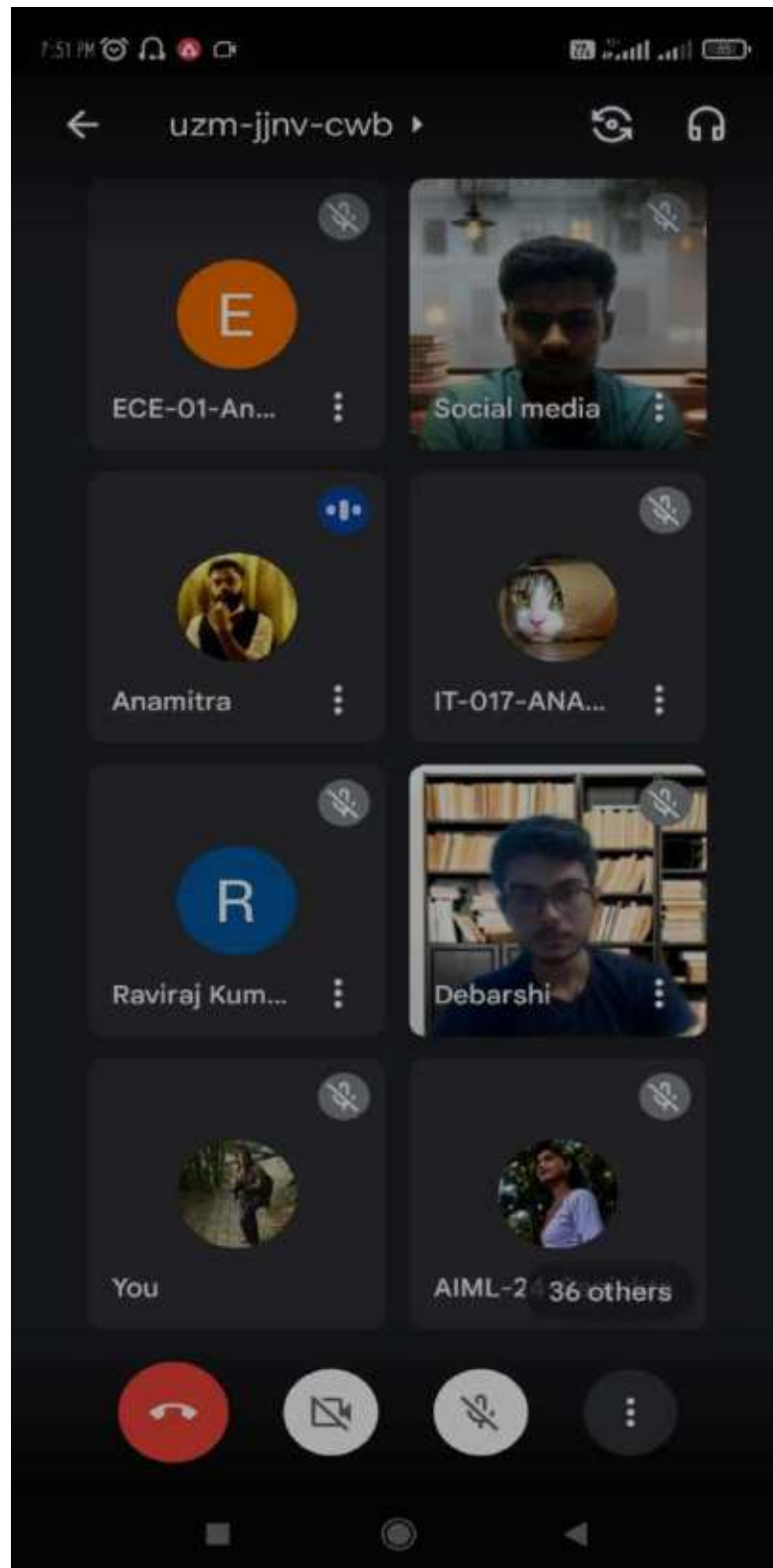
18TH AUG 2022
07:00pm
ONLINE

Meeting Link :
meet.google.com/uzm-ijnv-cwb

+91 7431074211
Sabuj Golui
Student event Co-ordinator

+91 89000 22915
Mr. Sourav Ghorai
Faculty event Co-ordinator

@IICMCKVIE



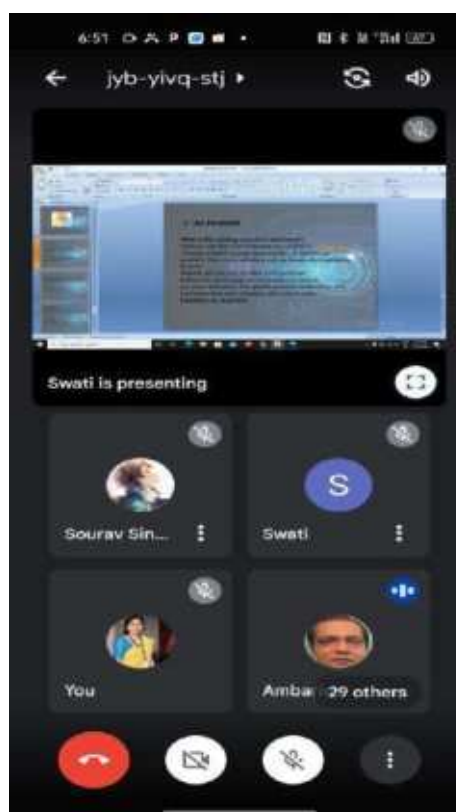
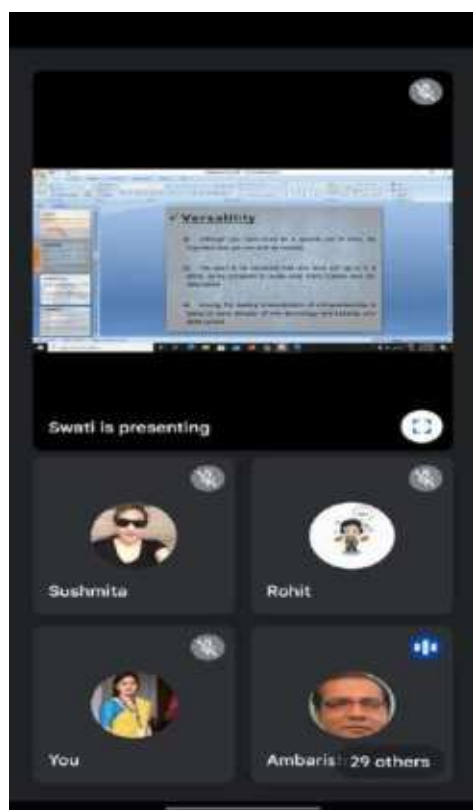
SESSION ON ACCELERATORS/ INCUBATION- OPPORTUNITIES FOR STUDENTS & FACULTIES- EARLY STAGE ENTREPRENEURS

Date: 19th August, 2022

Institution Innovation Council IIC, MCKVIE organized a session on Accelerators/ Incubation- Opportunities for Students & Faculties- Early Stage Entrepreneurs on the eve of Entrepreneurship day on 19/08/22 at 6 pm. The guest speaker Mr. Ambarish Chatterjee, Education Officer of MCKC group discussed different key characteristics and ten traits of a successful entrepreneur. This workshop is aimed to spark the entrepreneurial spirit in the budding innovators by guiding them on how to convert their Innovative Ideas and emerge as successful Entrepreneurs. About 76 students and staff participated in the webinar.

- Facebook link: <https://www.facebook.com/IICMCKVIE>
- Instagram link: <https://www.instagram.com/iicmckvie/>
- Tweeter link: <https://twitter.com/IICMCKVIE>

YouTube link: <https://www.youtube.com/channel/UCvoJ9pKVVxHnQhHqc0-L5NQ>

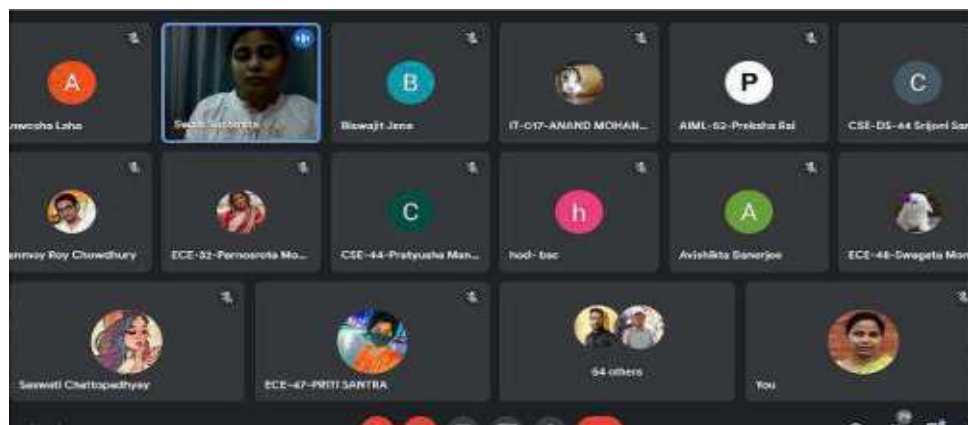


WORLD ENTREPRENEURS DAY

Date: 21st August, 2022

On the eve of World Entrepreneur Day on August 21, 2022, the Rotaract Club of MCKVIE, in association with the Institution Innovation Council IIC, MCKVIE, and the NSS unit, conducted a webinar. Amitabh Mohan, the founder and director of HLS India, was the featured speaker. August 21 is set aside for honoring successful business people. In addition to promoting entrepreneurship, innovation, and leadership, Mr. Mohan spoke on the significance of World Entrepreneurs Day. Entrepreneurs are crucial to market economies because they may drive the nation's economic expansion. They encourage new employment by developing new goods and services, which ultimately accelerates economic growth. MCKVIE personnel and students were present, which contributed to the success of the webinar.

Facebook: https://m.facebook.com/story.php?story_fbid=306917744986802&id=112887131056532



BUSINESS MODEL CANVAS (BMC)

Date: 29th August, 2022

One day Workshop on, “**Business Model Canvas (BMC)**” was organized by The StartUp Club by MCKVIE and Innovation & Entrepreneurship Development Center of MCKVIE on 29th August, 2022 in online Google Meet platform. About 60 students and 5 staff members was participated in the webinar. Dr. Juin Ghosh Sarkar, Assistant Professor, Management Science and Humanities, MCKVIE was speaker in this event.

