ACTIVITIES REPORT OF

MITE K-TECH INNOVATION HUB

2021-22

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

Accredited by NAAC with A+ Grade, An ISO 9001: 2015 Certified Institution

(An ISO 9001:2015 certified Institution)

(A Unit of Rajalaxmi Education Trust®, Mangalore)

Badaga Mijar, Moodbidri, DK 574225

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A talk on "Entrepreneurship Awareness Program" by

Mr. Perala shekar rao
KVIC - National member-South zone ministry of MSME, GOI
Dr. E Mohana rao
Director, Karnataka state office, KVIC ministry of MSME
Mr. M.Lingadurai
Assistant Director & Nodal officer (PMEGP), Karnataka state office, KVIC
Ms. Nagajyoti. V. Naik
District officer, KVIB, Mangalore

December 13th, 2021

Fig: Inaugural session of Entrepreneurship awareness program

Dr. G L Easwara Prasad, Principal, MITE welcomed the gathering and gave a brief about the initiatives taken by the Institute in developing Entrepreneurs. He said that education and entrepreneurship are complementary in modern days and one has to work towards growing above academics by exploring opportunities by organizations like EDII. He also mentioned about the growth of entrepreneurs from the Institute and noted that in the second decade of inception, the institute aims at developing more Entrepreneurs along with Research & Development activities.

He briefed that the commission has three main objectives which guide its functioning. These are

1. **The Social Objective** - Providing employment in rural areas

2. **The Economic Objective** - Providing saleable articles

3. **The Wider Objective** - Creating self-reliance amongst people and building up a strong rural community spirit.

Fig: Mr. Perala shekar rao

There are a wide range of Khadi personal care products manufactured in Uttarakhand Khadi Products - Handmade and Natural. The Activities of the Board are broadly classified into three sectors i.e., Khadi Sector, Village Industries Sector, Marketing Sector

The process of Implementation of schemes and programs starts at the Ministry of Micro, Small and Medium Enterprises which is the administrative head of the programs.

Development of Khadi, Village and Coir Industries:

> Market Promotion & Development Scheme (MPDA)
> Revamped Scheme of Fund for Regeneration of
> Traditional Industries (SFURTI)
>Export Market Promotion (EMP)
>Domestic Market Promotion Scheme (DMP)
>Trade and Industry Related Functional Support Services (TIRFSS)
>Welfare Measures (Pradhan Mantri Suraksha Bima Yojana (PMSBY))

Fig: **Dr. E Mohana rao**

Code Hunt- A Bootcamp on "Mobile Application Development Using Flutter" by Mr. Sameed shetty & Mr. Anoop bhat, Software developer at PIEFLY R&D PVT LTD

January 12th & 13th, 2022

Poster

PF - Software Solutions , in association with K-Tech Innovation Center of Mangalore Institute of Technology & Engineering (MITE) hosted a two-day Boot Camp at the MITE Campus on January 12th and 13th , 2022. Here the team of the PF-Software Solutions taught the students of the MITE about the flutter skills that can be applied in real life scenarios.

At the end of the boot camp the task was given to the participants to check their learning capabilities and those who executed the assigned task in the perfect way,

those who performed well in the task will be provided an internship opportunity in PF Software solutions to a few students on the basis of their performance.

During the inauguration of the program PF team explained about the PF-Software Solutions , NAIN and Incubation center in MITE. And also we explained about how the bootcamp is going to happen and our two days road map. Total 58 students attended the bootcamp.

Fig: Group photo with the list of participants

Day1 - Session 1 - Basics of Flutter :

In the morning session we taught everyone how to install android studio, flutter and vs code. After that In this session we explained to the participants about what flutter is, where we can use this , and what are the advantages of learning the flutter. And also about how flutter works and basic components of flutter. In This session we did a powerpoint presentation and explained the above mentioned things**.**

Day1 - Session 2 - Writing small application:

In the second session we created a small application where we thought them how to

customize the application based on our requirements

Day2 - Session 3 - Writing first application:

In this session we are going to code our first app for boot camp. The app we are going to build is the PF-Task.Which is the task management app. Here users can manage their daily tasks. This is the hands-on session where all participants coding along with the instructor and they learn by coding the app.

Day2 - Session 4 -Error solving & Doubt clarification in the Boot Camp:

This is the final session of the bootcamp which takes place remotely where all participants have to complete the coding challenge where we are giving them the design of the app and they have to code that and have to submit the app within the given time. And the best app developers will get an internship opportunity in PF-Software Solutions.

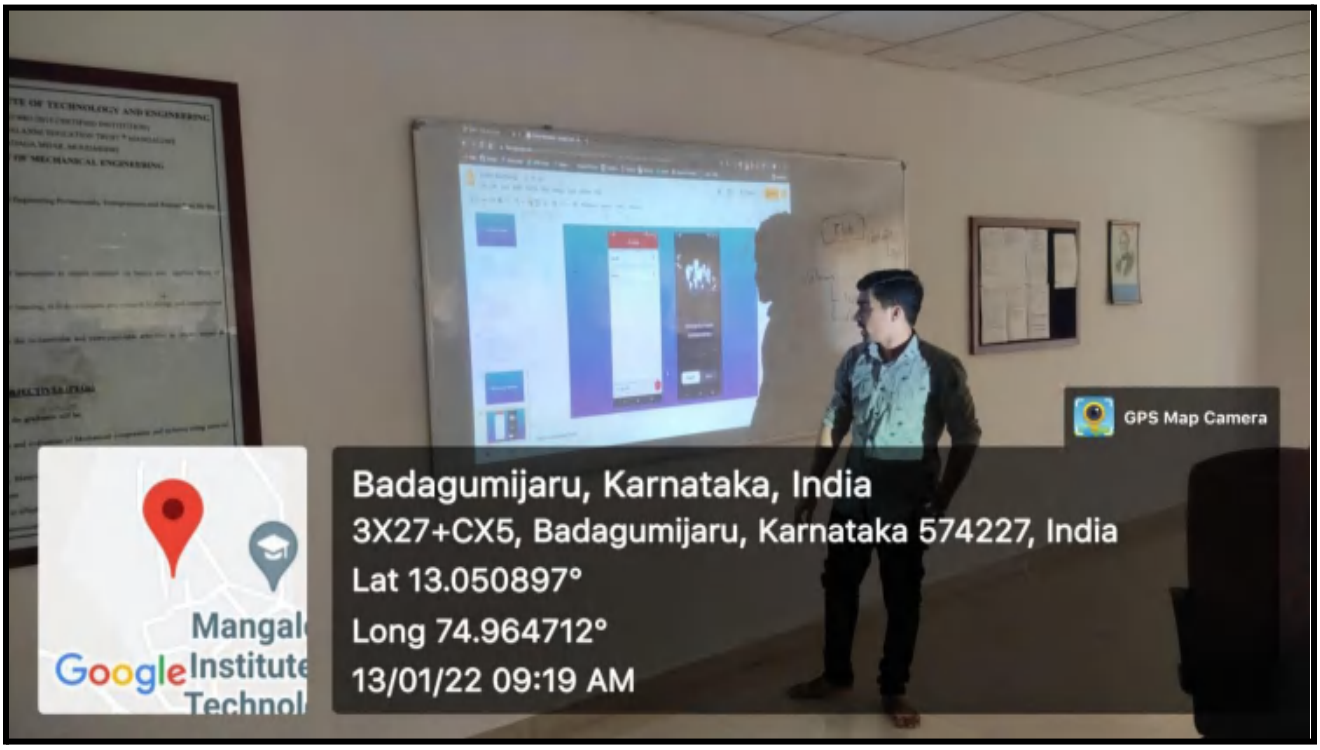


Fig: Session on Flutter application demonstration

An event "Smart India Hackathon 2022"

March 25th, 2022

Poster

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. The first four editions SIH2017, SIH2018, SIH2019 and SIH2020 proved to be extremely successful in promoting innovation out-of-the-box thinking in young minds, especially engineering students from across India.

SMART INDIA HACKATHON 2022 - PROCESS FLOW

STEP:1:
SIH2022 Software & Hardware Edition: Problem statements submission by Central & State Ministries, Departments, PSUs, Industries & NGOs

STEP:2:
Submission of Problem Statements (PSs) by Central & State Ministries, PSUs, Industries and NGOs on the SIH portal. Review of Submitted PSs & finalization by concerned committee Publishing finalized PSs

STEP:3:
Registration of College SPOCs on SIH portal Blocking published PSs by SPOCs of Colleges or Institutes Internal campus hackathon to be conducted in each college or institute by their SPOCs on their blocked PSs

STEP:4:
College SPOC to be responsible to conduct internal hackathon in the campus College to finalize the total best 10 teams + 5 waitlisted teams from the internal hackathon. SPOC to recommend the selected teams for SIH 2022 Software/Hardware edition at SIH portal.

STEP:5:
Team leaders of the selected teams to be registered at the SIH portal to submit ideas Submission of ideas by selected teams against PSs by college SPOC for the SIH2022 Finale Evaluation of submitted ideas

STEP:6:
Result Analysis and Result Publication.

SMART INDIA HACKATHON-2022 - JURY PANEL MEMBERS

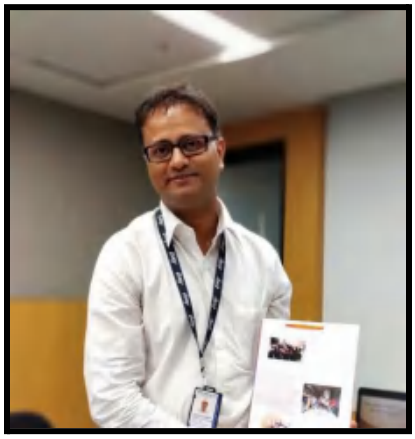
		
Mr. Arun R **Founder & Director** **D'Lithe Consultancy Pvt Ltd** **Bengaluru** **arun_vr@dlithe.com** **9731455221**	**Mr. Sridhar Murthy** **Founder & Director.** **D'Lithe Consultancy Pvt Ltd** **Bengaluru** **sridhar.murthy@dlithe.com** **9008815252**	**Mr. Vijay G H** **Architect** **D'Lithe Consultancy Pvt Ltd** **Bengaluru** **vijay.gh@dlithe.com** **8553300781**

Fig: 163 Students participating in Smart India Hackathon 2022

A total 33 teams participated in Smart India Hackathon under various themes. Based on multiple factors jury panel members verified and shortlisted 19 teams from different domains. The shortlisted teams have uploaded in smart india hackathon website. The entire process took place in the innovation center with 163 students participating in this hackathon.

LIST OF IDEA'S CATEGORIZED UNDER DIFFERENT THEMES

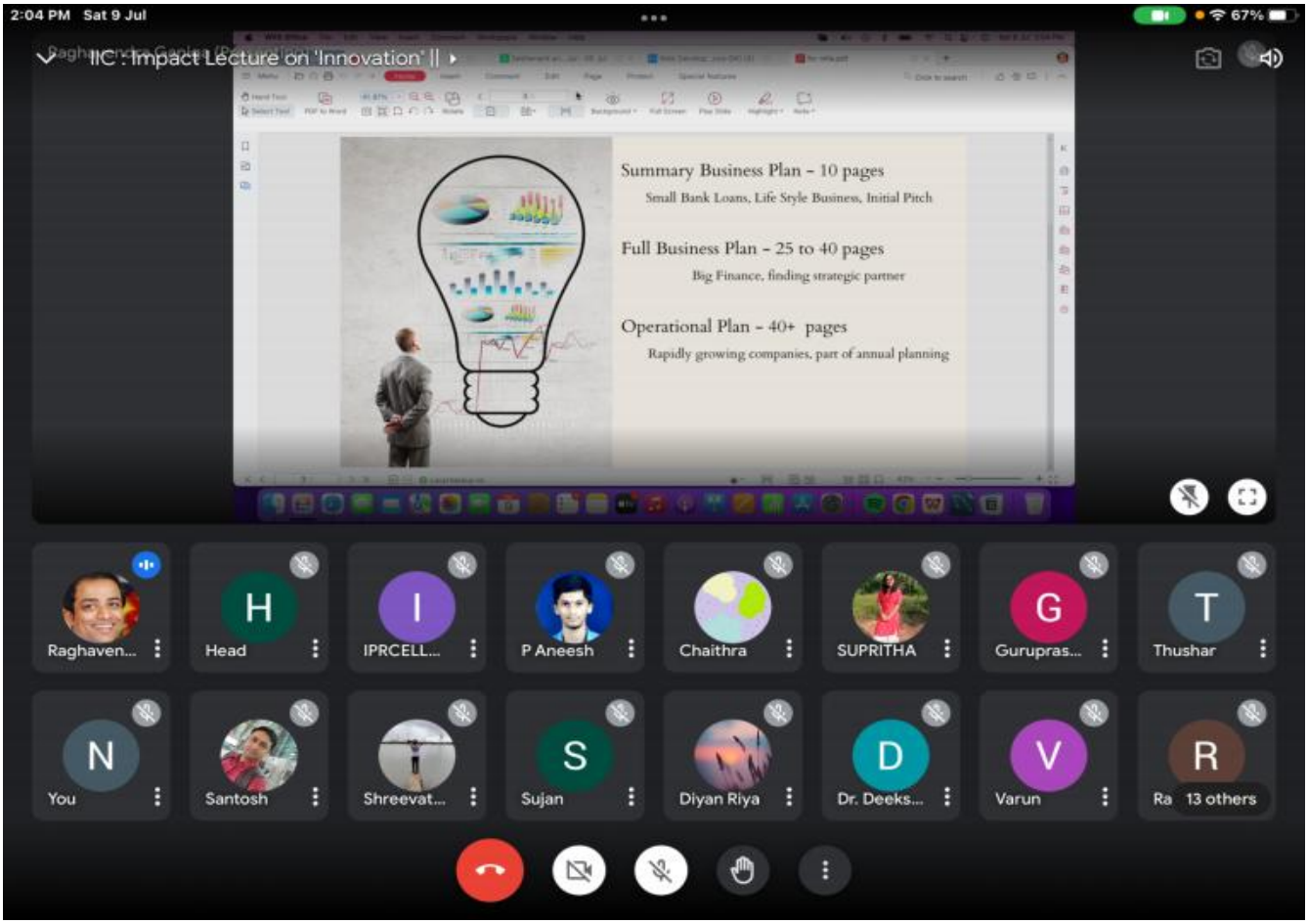
Sl no	THEME	No. of Teams Participated	No. of Teams Selected
1	SMART AUTOMATION	6	6
2	FITNESS & SPORTS	1	1
3	HERITAGE & CULTURE	-	-
4	MEDTECH/BIOTECH/ HEALTHTECH.	-	-
5	AGRICULTURE, FOODTECH & RURAL DEVELOPMENT	7	3
6	SMART VEHICLES	2	-
7	TRANSPORTATION & LOGISTICS	3	1
8	ROBOTICS AND DRONES	3	2
9	CLEAN & GREEN TECHNOLOGY	1	1
10	TOURISM	1	1
11	RENEWABLE/ SUSTAINABLE ENERGY.	1	-
12	BLOCKCHAIN & CYBERSECURITY	-	-
13	SMART EDUCATION	4	3
14	DISASTER MANAGEMENT	1	1
15	MISCELLANEOUS	3	-
	TOTAL	33	19

A Talk on "Validating the Business Plan"
by
Mr. Raghavendra Ganiga, Founder of Mobiezy Solutions

July 09th, 2022

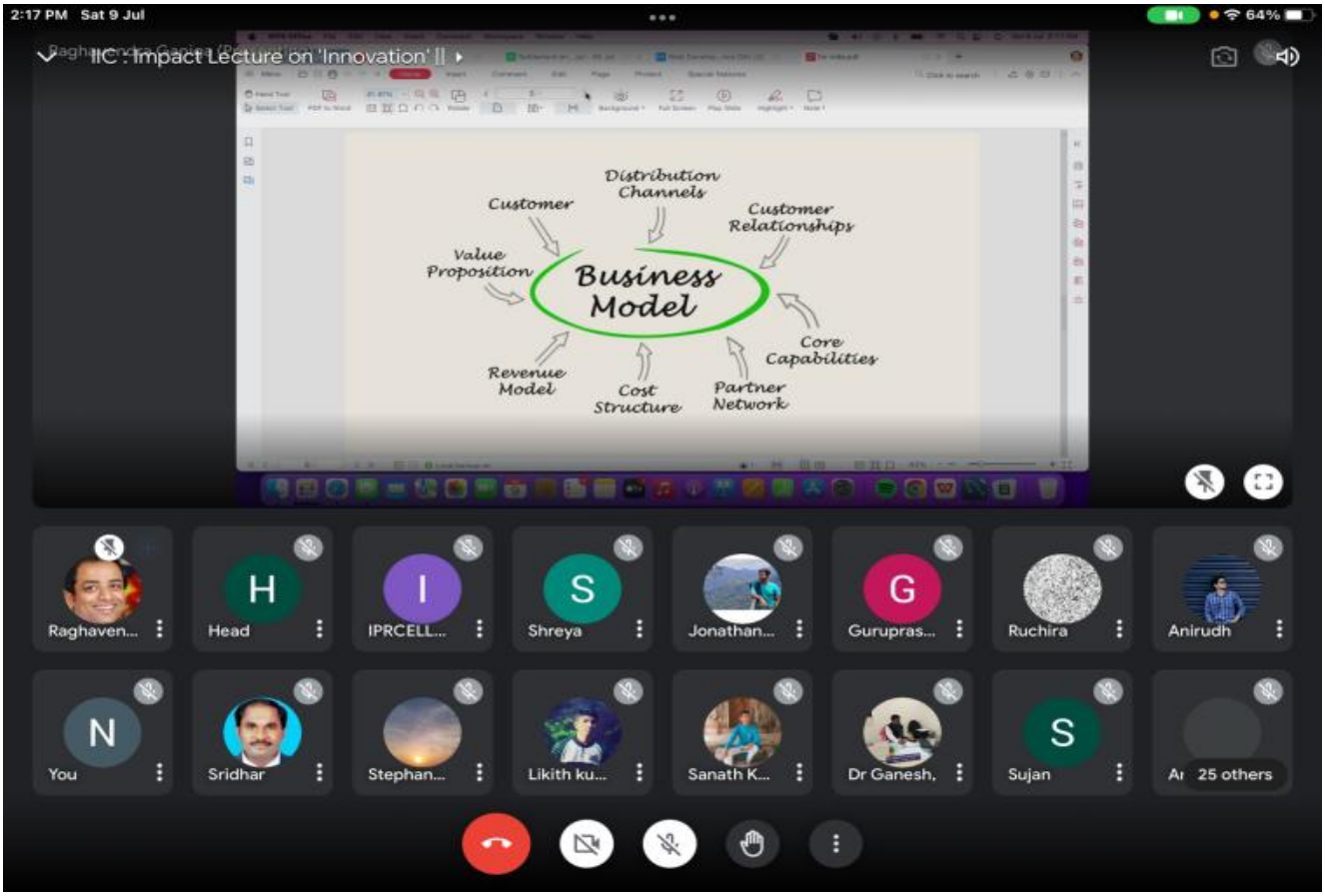
Poster

Mr. Raghavendra Ganiga, Founder of Mobiezy Solutions, gave the presentation on Innovation management. The Institution Innovation Council, in collaboration with Career Guidance Cell and IPR Cell, organized the webinar as part of the Impact Lecture sessions on improving the innovation and entrepreneurship ecosystem.



Mr. Raghavendra Ganiga explains the concept of Business plan

Mr. Raghavendra Ganiga introduced his concept by the concept of a business plan that can be integrated into student ideas which can be converted into a startup. He started his presentation by explaining the students' view about the startup considering different difficulties and opportunities. He presented a business model concept that should be considered by the new age entrepreneurs in an existing challenging world. He also briefed about the market research which is the core sector of any startup that can be initiated in the future. He also briefed about the companies that fails early due to lack of market study. Further, in his presentation he briefed various techniques used in the ideation process which includes sketching, prototyping, brainstorming, storytelling, questioning assumptions and mind mapping , then he connects the ideation to the design thinking process and the importance of prototyping and testing



Mr. Raghavendra Ganiga provides the concept of Business model

The speaker answered audience questions and ended the session by mentioning the importance of Business Model and Market research concepts to an entrepreneur and the requirement of MVP from a prototype. More than 50 participants attended and benefited from the event and Mr. Swaroop, expressed his thanks.

"Young Entrepreneurs Program"

Developing an Entrepreneurial mindset

at "Karnataka Public School"

August 26th, 2022

Poster

Mangalore Institute of Technology & Engineering (MITE), Moodabidri, conducted a Program "Young Entrepreneurs Program - Developing Entrepreneur Mindset " in Karnataka Public school, Mijar, Moodabidri for the Students of Class IX and X. The Program was conducted by the MITE NAIN Incubation Center, supported by the K-Tech, Dept of IT, BT, S&T, Government of Karnataka and Startup Karnataka. Building an innovative mindset in higher primary students at an early stage creates a good thought process in thinking that leads to building innovative ideas supporting India's Economic growth.

The Program was initiated by Mr. Swaroop, Incubation Manager, MITE Incubation Center. He spoke about the 'How to generate ideas using the knowledge of Science & Technology. He also briefed about the initiatives from Dept of IT, BT, S&T, Government of Karnataka and the

District Innovation Hub that is created to provide an impetus to the Entrepreneurs amongst the College Students. MITE is one of the District Innovation Center that is supported by the Government of Karnataka through which 20 ideas have been incubated in the last three years. Also, Five Startups have graduated from this ideation phase, of which one of the Startup also received further grants of Rs 25 Lakhs funding from ELEVATE program of the Govt of Karnataka. MR. Swaroop further spoke about the Entrepreneurship and business opportunities that students can explore while being at school.

Four Ideas that were developed by MITE students under the New Age Incubation Network (NAIN) were demonstrated for the students. Agriculture Drone to identify diseases among crops, Walktron – a shoe through which charging for mobile can be done, Homechef – A Home delivery app for the Homemakers, and Kitchen Yantra – an IoT based device to track kitchen groceries in a smart and efficient way were the four ideas that were demonstrated.

An Entrepreneurial Talk was also presented by MR. Sheraz Shaikh, a 2010 MBA Alumni of MITE and a Local Entrepreneur from Moodabidri who has a firm Sunshine Traders. Mr. Sheraz presented a Talk on 'Innovation & Entrepreneurship'

His session added value to this boot-camp by nurturing students' mindset on how to think Innovative ideas at school level and how to work beyond academics at a young age. He also quoted the importance of becoming an entrepreneur at an young age.

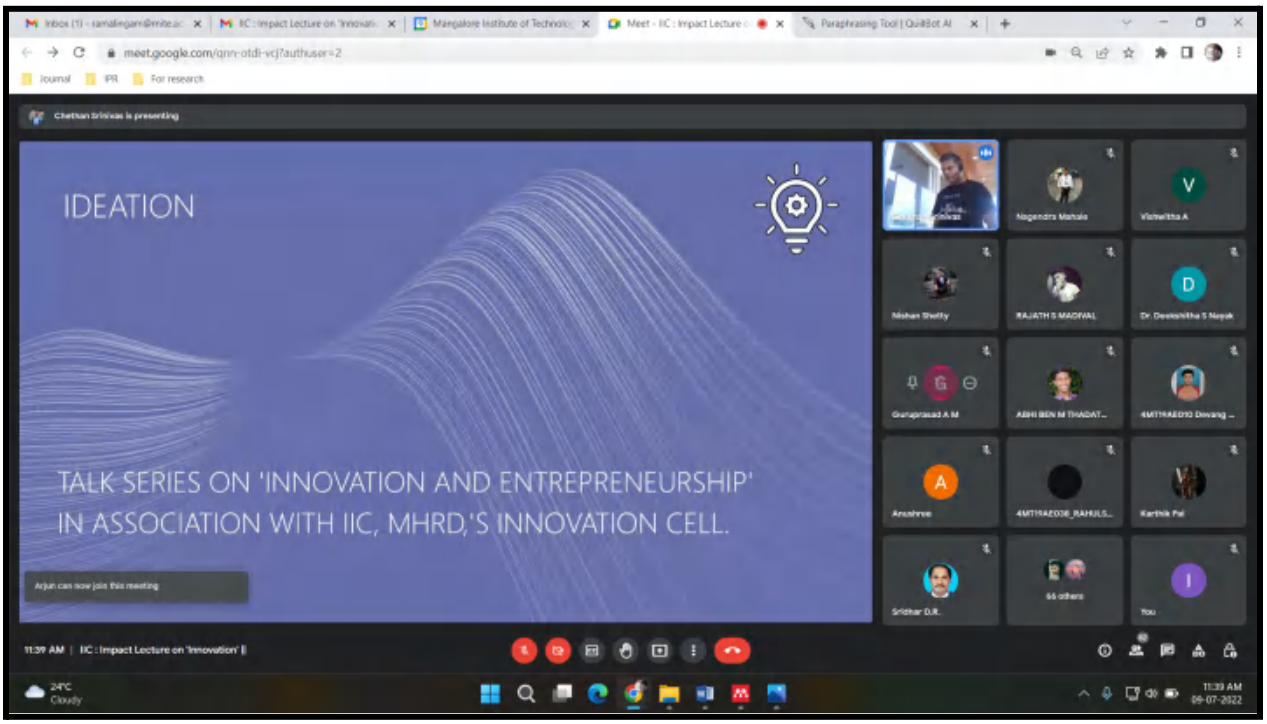
A Total of 113 higher primary students from 9th & 10th Class of KPS Mijar attended the innovation boot-camp and interacted with the students of MITE. The Young minds showed a keen interest in learning innovative things and importance about Drone Technology, Internet of things, Mobile application development. The School Kids also got knowledge to understand science and its application in the real world with practical examples.

A Talk on "Ideation-Generating Ideas from ground reality" by Mr. Chethan Srinivasa, Director of Product Management, VISA

July 09th, 2022

Poster

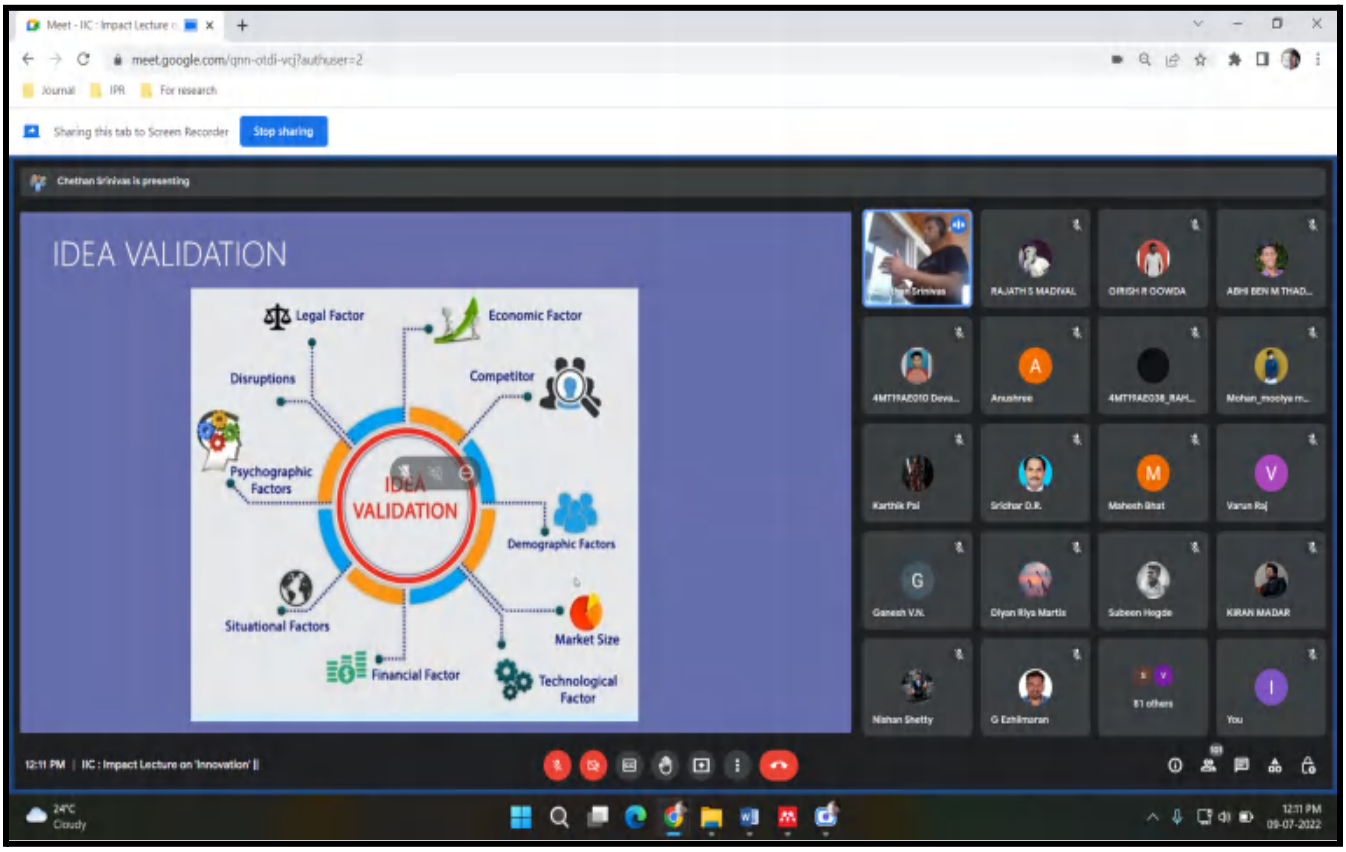
Mr. Chethan Srinivasa, Director of Product Management, VISA, gave the presentation on ideation. The Institution Innovation Council, in collaboration with Career Guidance Cell and IPR Cell, organized the webinar as part of the Impact Lecture sessions on improving the innovation and entrepreneurship ecosystem.



Mr. Chethan Srinivasa explains the ideation definition

Mr. Chethan Srinivasa introduced his presentation by explaining the idea generation process or concept formation. He presented a framework to initiate the ideation process and he explained that ideation is often the most exciting phase in a design thinking project because the goal during ideation is to generate a large number of ideas that the team can then filter and aggregate to the best, most practical or most innovative to inspire new and better design solutions and products.

Further, in his presentation he briefed various techniques used in the ideation process which includes sketching, prototyping, brainstorming, storytelling, questioning assumptions and mind mapping , then he connects the ideation to the design thinking process and the importance of prototyping and testing.



Mr. Chethan provides the steps to validate the idea

The speaker answered audience questions and ended the session by mentioning the importance of design thinking concepts to an entrepreneur and the requirement of MVP from a prototype. More than 90 participants attended and benefited from the event and Mr. Ramalingam HM, Convener of MITE-KSCST IPR Cell, expressed his thanks.

A Talk on "Entrepreneurial Journey-Ideation to PoC"
by
Mr. Ramesh Mahadev, Founder of Trividtrans Private Limited

July 28th, 2022

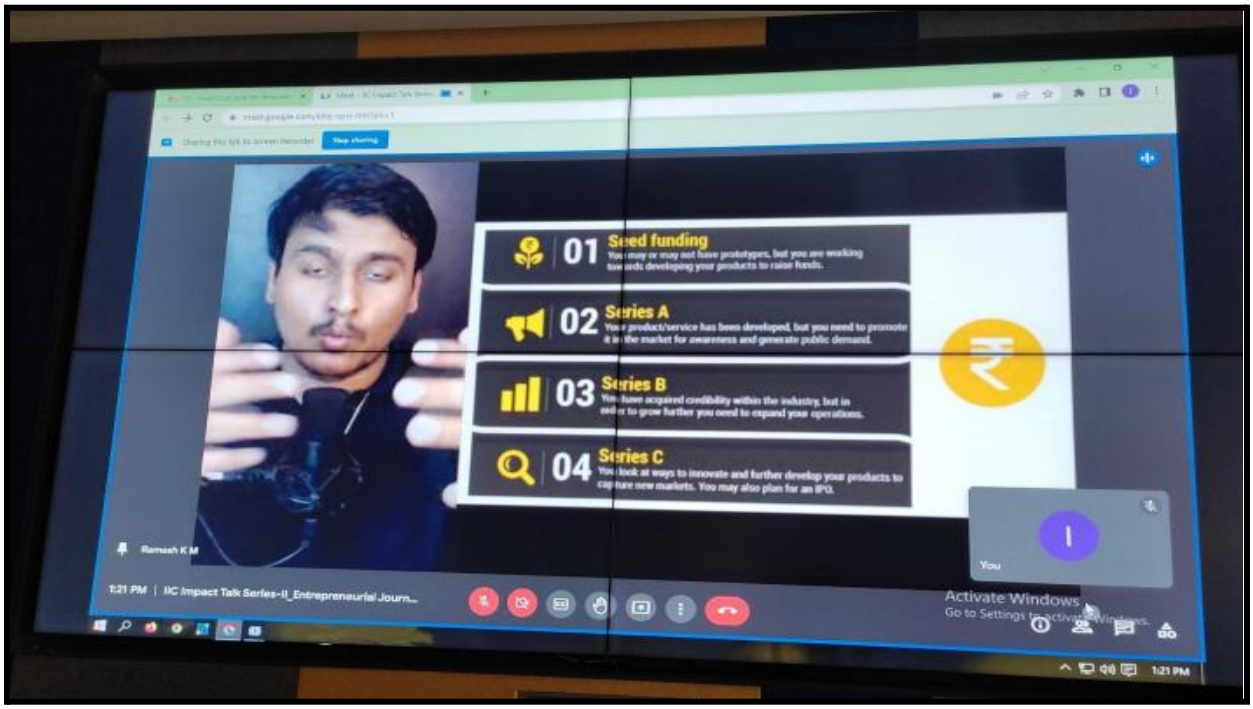
Mr. Ramesh Mahadev, Founder of Trividtrans Private Limited , gave the presentation on Entrepreneurial Journey-Ideation to PoC. The Institution Innovation Council, in collaboration with Career Guidance Cell and IPR Cell, organized the webinar as part of the Impact Lecture sessions on improving the innovation and entrepreneurship ecosystem.

Mr. Ramesh Mahadev explains the challenges faced by entrepreneurs

Mr. Ramesh Mahadev introduced his concept by the application of academic projects that can be your future companies. He started his presentation by explaining the idea generation process or concept formation. He presented a framework to initiate the ideation process and he explained the major difficulties that are faced by students in

converting existing ideas to PoC and how to overcome them with innovative techniques. The goal during ideation is to generate a large number of ideas that the team can then filter and aggregate to the best, most practical or most innovative to inspire new and better design solutions and products.

Further, in his presentation he briefed various techniques used in the ideation process which includes sketching, prototyping, brainstorming, storytelling, questioning assumptions and mind mapping , then he connects the ideation to the design thinking process and the importance of prototyping and testing.



Mr. Ramesh Mahadev provides the types of funding opportunities

The speaker answered audience questions and ended the session by mentioning the importance of design thinking concepts to an entrepreneur and the requirement of MVP from a prototype. More than 90 participants attended and benefited from the event and Mr. Swaroop, DIA, Incubation center expressed his thanks.

A Talk on "Protecting Intellectual Property Rights"
by
Ms. Varalakshmi Shet, Advocate and Attorney
V.K.R Legally, Mangaluru

July 28th, 2022

Ms. Varalakshmi Shet, Advocate and Attorney, V.K.R Legally, Mangaluru, was the resource person for the event. The Institution Innovation Council, in collaboration with Career Guidance Cell and IPR Cell, organized the webinar as part of the Impact Lecture sessions on improving the innovation and entrepreneurship ecosystem.

Ms. Varalakshmi explains the definitions of various IPRs

Ms. Varalakshmi provided the definitions of various intellectual property rights such as patents, copyrights, trademarks, design rights, geographical indications and also the applicable regulations of these rights in India.

She also presented IP infringements, legal issues and the consequences of IP infringements. How the civil and criminal remedies for IP infringement can be enforced by bringing an action before the competent court.

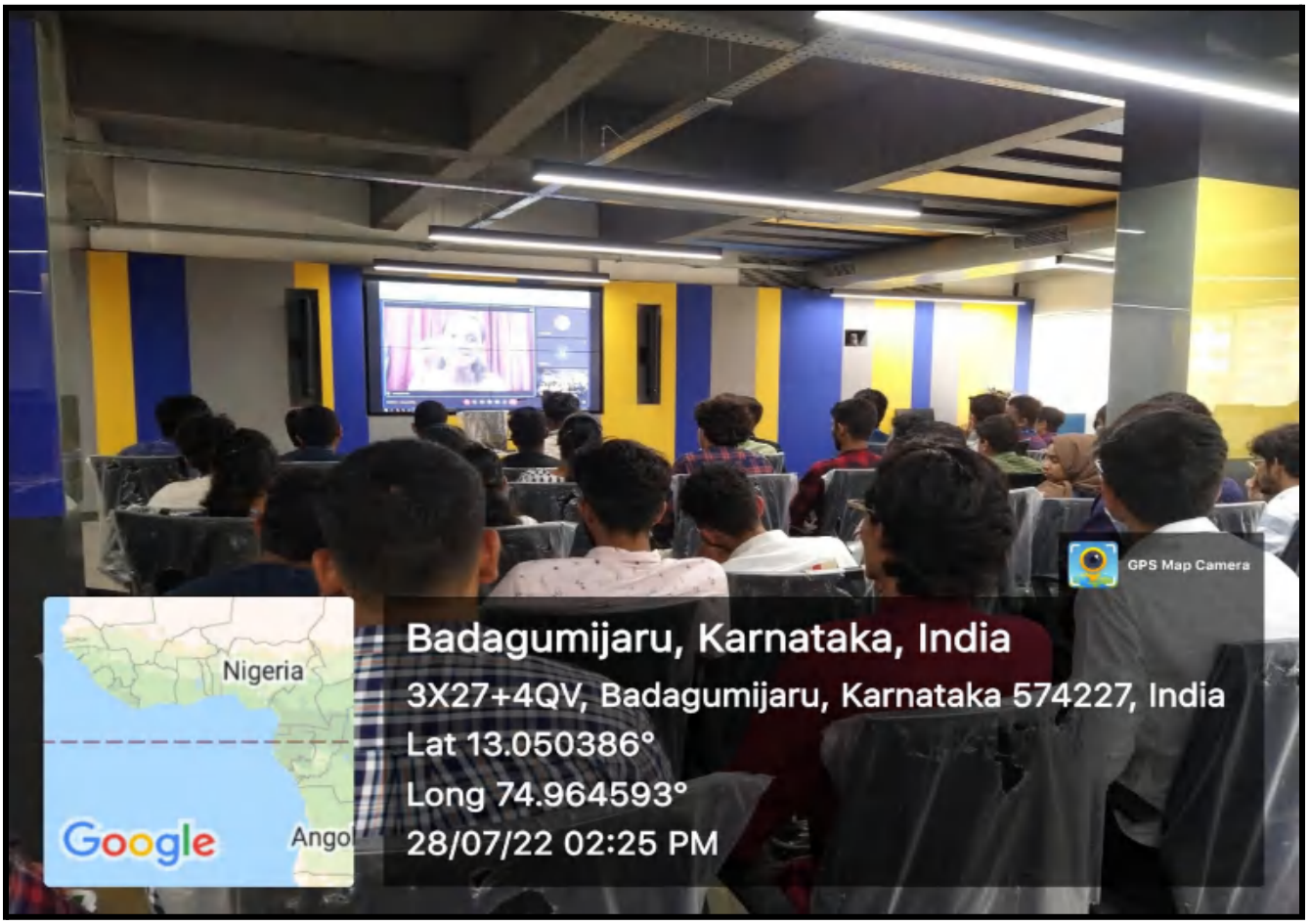


Fig: **Ms. Varalakshmi provides the steps to validate the idea**

The speaker answered audience questions. More than 60 participants attended and benefited from the event and Mr. Ramalingam HM, Convener of MITE-KSCST IPR Cell, expressed his thanks.