MITE-KSCST IPR Cell

Academic Year 2024-25

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IP Statistics

No of Patent Applications Filed	No of Patent Applications Published	No of Patent / Design Granted
55	**43**	**6**

MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A unit of Rajalaxmi Education Trust ®, Mangalore)
Autonomous Institute Affiliated to V.T.U., Belagavi , Approved by AICTE, New Delhi
Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

MITE-KSCST IPR Cell

Members for the Academic Year 2024-25

The following faculty are the members of the reconstituted committee for the Academic year 2024-25

S.No	Name and Designation	Role
1	**Dr. Prashanth C M** Principal	Chairperson
2	**Dr. Ramalingam H M**, Associate Professor, Dept. of Electronics & Communication Engineering	Convener
3	**Dr. Vignesh Nayak Ullal,** Sr. Assistant Professor, Dept. of Mechanical Engineering	Member
4	**Dr.Rejeesh Rayaroth**, Assistant Professor, Dept. of Computer Science & Engineering	Member
5	**Dr. Sreeja Rajesh**, Associate Professor, Dept. of Information Science & Engineering	Member
6	**Dr. Bindu Madhavi**, Assistant Professor, Dept. of Mechatronics Engineering	Member
7	**Dr. Anushree Raj,** Senior Assistant Professor, Department of MCA	Member
8	**Dr.Maryjo M George**, Assistant Professor, Dept of AI and ML	Member
9	**Mr. Ranjith H D**, Sr. Assistant Professor, Dept. of Electronics & Communication Engineering	Member
10	**Mr. Sandeep S Naik,** Assistant Professor, Department of CSE (Internet of Things & Cyber security with Blockchain Technology)	Member
11	**Mr. Amar Gandge Subhash,** Assistant Professor, Department of Aeronautical Engineering	Member
12	**Mr. Surjit Ram,** Sr. Assistant Professor, Dept. of Humanities	Member

MITE- KSCST IPRCELL

Career Opportunities in IP for STEMM Graduates

Date: 28-09-2024

The event *"Career Opportunities in IP for STEMM Graduates"* was organized to guide Science, Technology, Engineering, Mathematics, and Management (STEMM) graduates in exploring the vast opportunities within the Intellectual Property (IP) sector. It aimed to bridge the gap between technical expertise and the legal-business interface, showcasing how professionals with a STEMM background can transition into roles that influence innovation and commercialization. The session addressed career options in patent law, IP consulting, technology transfer, and innovation management, highlighting the importance of IP in today's competitive and technology-driven global market.

Diyendu Verma discussing about the need of intellectual property rights

The keynote speaker, **Adv. Divyendu Verma**, Global Head of Patents at Audiri Vox and Managing Partner at Duxlegis, brought a wealth of international experience to the session. He is also a member of prestigious global committees such as the AIPPI Standing Committee on Information Technology, the Designs Committee of INTA, and the Copyright Committee of APAA. Through his talk, he provided an in-depth understanding of patent systems, the drafting and prosecution process, global IP trends, and the increasing demand for IP professionals with technical qualifications. His real-world insights illustrated how IP serves as a strategic tool for protecting innovation while enabling business growth.

Glimpse of the event

The event drew participants from diverse STEMM disciplines who were keen to understand how their technical skills could be leveraged in the IP landscape. They gained valuable knowledge on skill development, certification options, and global career prospects, along with an appreciation for the interdisciplinary nature of IP work. The interactive discussion session allowed attendees to seek clarity on career transitions and the evolving role of IP professionals in innovation ecosystems. The program concluded on an inspiring note, encouraging participants to pursue further training and actively explore opportunities in the Intellectual Property domain.

ENTREPRENEURSHIP DEVELOPMENT CELL

Program Description

Program Title	**Innovation Development & Commercialization of Lab Technologies**	
Program Type	***Workshop***	
Theme	***IPR & Technology Transfer, Innovation & Design Thinking***	
Date	**26.02.2025**	
Resource Person	**Mr. Swaroop Gannamani** **Incubation Manager** **MITE-FIRST**	**Dr. Ramalingam H M** **Head - IPR** **MITE KSCSTIPR CELL**
Number of students	**58**	
Number of Faculty	**02**	
Coordinator	**Mr. Swaroop Gannamani** **Incubation Manager** **MITE-FIRST**	

Brief Introduction about the Program :

Entrepreneurship Development Cell in association with IPR Cell has organized a workshop focused on "Innovation Development & Commercialization of Lab Technologies" for young student innovators on 26.02.2025. This workshop aims to bridge the gap between academic research and real-world impact. It will introduce students to the exciting process of transforming laboratory discoveries into marketable products and services. This workshop will explore key stages, from identifying promising research with commercial potential to navigating intellectual property, funding, and market entry strategies. The goal is to inspire an entrepreneurial mindset among students, equipping them with a foundational understanding of how to translate scientific breakthroughs into tangible solutions for societal benefit and economic growth.

Fig: Mr. Swaroop, Incubation Manager, Briefing about the Innovation Development stages

Description about the program:

Session:1

Mr. Swaroop Gannamani, Incubation Manager has briefed to the students about the importance of Understanding the Journey of an Idea to Market**.** In his briefing, he explained about the structured framework (TRL) to understand how an initial innovative idea progresses through various stages of research, development, and validation before it can become a marketable product or service. This demystifies the innovation process and highlights the different considerations at each stage. He highlighted the strategies for learning about TRLs. He quoted that the Students will appreciate that innovation is not just about having a brilliant idea, but also about the rigorous steps involved in proving its feasibility, functionality, and market readiness. This fosters a more comprehensive understanding of what it takes to bring an innovation to fruition. The TRL framework provides a roadmap for managing innovation projects. Students learnt how to assess the maturity of a technology, identify the next critical steps for development, and understand the resources required at each level. This knowledge can be directly applied to their academic projects and future entrepreneurial endeavors.

Fig: Dr. Ramalingam H M Briefing about the Commercialization of Lab technologies

Session:2

Dr. Ramalingam H M, Head IPR Cell, has briefed the students about the importance of Understanding the translational pathway of scientific discoveries**.** In his talk he highlighted the process of moving research breakthroughs from the laboratory to marketable products and services. Students gain insights into the crucial steps involved, such as intellectual property protection, technology validation, market analysis, and business model development, which are often not covered in traditional science curricula. He mentioned about the developing an entrepreneurial mindset within scientific disciplines is important because by learning about commercialization, students can start to see their research and scientific knowledge through an entrepreneurial lens. This fosters a mindset that considers the potential real-world impact and marketability of their work, encouraging them to think innovatively and identify potential applications beyond academia. He mentioned Acquiring practical skills in technology transfer and business development**.** These Workshops or case studies within the session equips students with foundational knowledge and skills relevant to commercialization, such as patent filing processes, market research techniques for scientific innovations, and strategies for pitching technology to investors.

Key Outcomes:

This workshop has Increased awareness of the potential for translating research into marketable products and services: The session enlightened students and researchers about the possibilities of taking innovations developed in the lab and transforming them into commercially viable solutions that address real-world needs.

This workshop has Enhanced understanding of the steps and considerations involved in the commercialization process: Participants gained valuable insights into the various stages of commercialization, including intellectual property protection, market research, funding strategies, regulatory requirements, and business model development. This knowledge equipped them with a foundational understanding of what it takes to bring a lab technology to the market.

MITE-KSCST IPR Cell

World IP Day Celebration 2025

"Empowering Creativity Through Intellectual Property Awareness"

MITE-KSCST IPR Cell & NAIN-MITE in association with the Institution's Innovation Council (IIC), organized World IP Day Celebration, on **26th of April, 2025**. A session on "Empowering Creativity Through Intellectual Property Awareness" was conducted as part of the celebration.

Resource Person

The resource person for the session was **Mr. Sundar Sherighar M**, Assistant Director, MSME Development Institute, Mangaluru. His extensive experience and expertise in intellectual property law significantly contributed to the depth and quality of the workshop.

Workshop Overview

The MITE-KSCST IPR Cell and NAIN-MITE, in collaboration with the Institution's Innovation Council (IIC), commemorated *World Intellectual Property (IP) Day* on 26th April 2025 with an enlightening session on "Empowering Creativity Through Intellectual Property Awareness". The event was designed to raise awareness among students and faculty about the critical role intellectual property plays in fostering innovation, creativity, and economic development.

The session was graced by the presence of **Mr. Sundar Sherighar M**, Assistant Director, MSME Development Institute, Mangaluru, who served as the resource person for the event. Mr. Sundar is a seasoned expert in the domain of intellectual property and MSME development. With years of experience in guiding startups and entrepreneurs, his insights were both practically enriching and academically relevant. His background in supporting innovators and advising them on IP strategies proved instrumental in setting a comprehensive tone for the session.

The event began with a warm welcome address by the coordinator of the IPR Cell, followed by a brief introduction of the resource person. Around 50 students and 10 faculty members from various departments enthusiastically participated in the session, demonstrating a keen interest in learning about IP laws and their practical implications.

Mr. Sundar began the session by outlining the importance of intellectual property rights in today's knowledge-driven economy. He elaborated on how effective IP management can not only protect innovations but also enhance their commercial value. The presentation delved into the different types of intellectual property such as patents, copyrights, trademarks, and trade secrets, with real-world examples and case studies that captured the attention of the audience.

One of the key takeaways of the session was the practical guidance offered on the process of securing IP rights. Participants were educated on how to approach the patenting process, the importance of prior art search, and the documentation required. Mr. Sundar also emphasized the significance of timely filing of IP and the strategic use of trademarks and copyrights in building business identity and brand value.

Another major highlight of the session was the discussion on MSME development initiatives and how budding innovators and student entrepreneurs can leverage government support for protecting and monetizing their intellectual property. Mr. Sundar shed light on various schemes and support systems available through the MSME Development Institute, particularly aimed at empowering student startups and early-stage ventures.

The session concluded with an interactive Q&A round, during which participants actively posed questions related to patent filing, copyright infringement, and the commercialization of IP. The event was a successful step towards cultivating an IP-conscious culture within the institution, aligning with the global theme of World IP Day 2025.

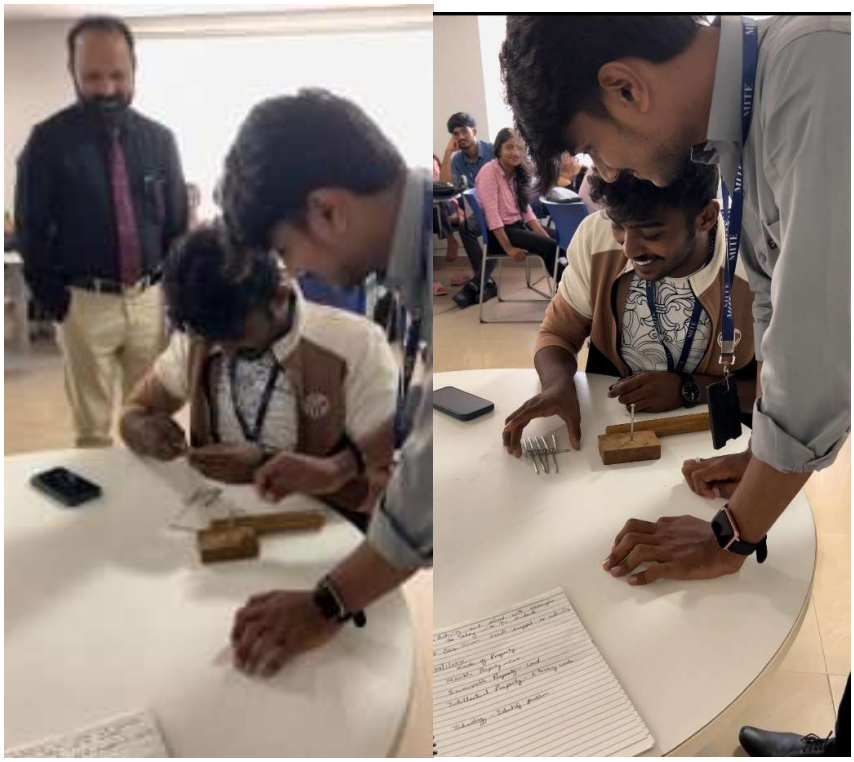
Conclusion

The event fostered a strong awareness of IP and inspired the participants to explore the process of securing their innovations, thereby contributing to a culture of innovation at MITE. The collaborative efforts of MITE, KSCST, and the experienced resource person provided a valuable learning experience, equipping participants with the knowledge and confidence to excel in the field of intellectual property law.

Glimpse of the Event

Mr. Sundar Sherighar M delivering his presentation at the event

MITE-KSCST IPR Cell



Students solving a problem innovatively during the event

ENTREPRENEURSHIP DEVELOPMENT CELL

Program Description

Program Title	**Innovation Design Thinking**		
Program Type	***Boot camp***		
Theme	***IPR & Technology Transfer & Innovation & Design Thinking***		
Date	**08.05.2025 - 09.05.2025**		
Resource Person	**Mr. Swaroop G** Incubation Manager MITE-FIRST	**Dr. Ramalingham H M** Head MITE-KSCST IPR Cell	**Dr. Manjula Ramannavar** Associate Professor ICC- MITE
Number of students	**40**		
Number of Faculty	**03**		
Coordinator	**Mr. Swaroop G** Incubation Manager MITE-FIRST		

Brief Introduction about the Program :

The Innovation Design Thinking Bootcamp: Design Thinking for Real-World Impact is an intensive program designed to unlock participants' creative potential and empower them to drive impactful solutions. This dynamic bootcamp immerses attendees in the powerful methodology of Design Thinking, a renowned human-centered approach to problem-solving and innovation. The program emphasizes a practical, hands-on learning experience, guiding participants through the core stages of the Design Thinking process. Participants will first delve into Empathy & Discovery, learning to genuinely understand user needs through various research methods, keen observation, and developing deep empathy. This foundational stage ensures that all solutions are rooted in genuine human insights. Following this, the bootcamp focuses on Ideation & Creativity, where attendees will master techniques for generating a multitude of innovative ideas. This involves pushing conventional boundaries and fostering "out-of-the-box" thinking to explore diverse possibilities for addressing identified challenges.

Participants will transform their conceptual ideas into tangible prototypes, allowing for rapid testing of assumptions and quick iteration based on initial feedback. This iterative process is further reinforced in the Testing & Refinement phase, where solutions are validated with real users to gather critical insights and refine designs for maximum impact and user acceptance. Throughout the program, a strong emphasis is placed on Collaborative Problem-Solving. This bootcamp is ideal for professionals, entrepreneurs, and students seeking to develop a systematic approach to innovation and create truly user-centric products and services.

Fig: Dr. Manjula Ramannavar briefing on stages of Design Thinking to the participants

DAY-1: Design Thinking Workshop: A STAGE-BY-STAGE OVERVIEW

This session guided participants through the five core stages of this human-centered methodology. Beginning with Empathize, teams engaged in user research to deeply understand needs, pain points, and motivations. This led to the Define stage, where observations were synthesized into clear, actionable problem statements. Next, Ideate facilitated brainstorming sessions to generate a wide array of potential solutions, encouraging divergent thinking. Promising concepts then moved into the Prototype phase, where participants quickly built low-fidelity models to make ideas tangible. Finally, in the Test stage, these prototypes were presented to target users for feedback, enabling iterative refinement and ensuring solutions were validated and impactful. This structured approach fostered collaborative problem-solving and innovative outcomes.

Session Outcomes:

i) Participants developed a practical understanding and application of the Design Thinking process for complex problem-solving.

ii) Teams successfully generated, prototyped, and validated user-centric solutions to identified challenges.

iii) Improved collaborative skills and fostered an agile, iterative mindset among all attendees.

Fig: Mr. Swaroop Gannamani Briefed on Business Model Canvas to the participants

DAY-2: Business Model Canvas Workshop- A STRATEGIC OVERVIEW

The Business Model Canvas (BMC) workshop provided participants with a powerful strategic management tool for developing and documenting new or existing business models. The session demystified the nine essential building blocks of a business: Customer Segments, Value Propositions, Channels, Customer Relationships, Revenue Streams, Key Resources, Key Activities, Key Partnerships, and Cost Structure. Participants actively engaged in mapping out their own business ideas or hypothetical scenarios onto the Canvas, visualizing the interdependencies and strategic alignment of each component. This hands-on approach enabled a holistic understanding of how different aspects of a business model contribute to value creation and delivery. The workshop fostered clarity, strategic thinking, and a shared understanding of business fundamentals.

Session Outcomes:

i) Participants gained practical proficiency in utilizing the Business Model Canvas for strategic planning and analysis.
ii) Teams developed a comprehensive and visual representation of their business ideas, identifying critical strengths and weaknesses.
iii) Enhanced understanding of interconnected business components, leading to more robust and sustainable model development.

Fig: Dr. Ramalingham H M Briefing about TRL stages to the participants

DAY-2: Technology Readiness Level Mapping - ASSESSING INNOVATION MATURITY

The Technology Readiness Level (TRL) workshop provided participants with a structured framework for assessing the maturity of their technological innovations. The session focused on educating attendees about the nine distinct TRL stages, ranging from basic principles observed (TRL 1) to actual systems proven in an operational environment (TRL 9). Participants engaged in practical exercises, learning to objectively evaluate their own projects or case studies against these levels. This included identifying the necessary evidence and milestones required to progress a technology through each TRL, thereby pinpointing development gaps and strategic next steps. The workshop emphasized the importance of TRLs in de-risking technology development, facilitating investment decisions, and guiding commercialization pathways.

Session Outcomes:

i) Participants acquired a clear understanding of the TRL framework and its application in technology development.
ii) Attendees developed the ability to assess and categorize the maturity of various technologies.
iii) Enhanced capacity for strategic planning, identifying future development needs, and understanding commercialization readiness.

Session Photos:


Discussion

MITE-KSCST IPR CELL

A two-days workshop on "Intellectual Property Rights (IPRs) and IP Management for Startups"

Date: 15th to 16th May 2025

MITE-KSCST IPR Cell, in association with Institution's Innovation Council (IIC) and New Age Innovation Nework (NAIN) conducted a two-day workshop on "Intellectual Property Rights (IPRs) and IP Management for Startups". This workshop was held at Simulation Lab, PG Block, MITE on the 15th and 16th of May 2025. The resource persons for the workshop were Dr. Manjunath K. N, Associate Professor, Department of CSE, MIT, Manipal, and Dr. Ramalingam H M, Convener, IPR Cell, MITE.The Incharge HOD of the Department of Mechatronics Dr. Bindu Madhavi J, Resource person Dr. Manjunath K. N, Convener IPR Cell Dr. Ramalingam H.M., Workshop coordinators Dr. Suraj Bhat and Mr. Santhosh S, and faculty members of the department were present for the inaugural session.

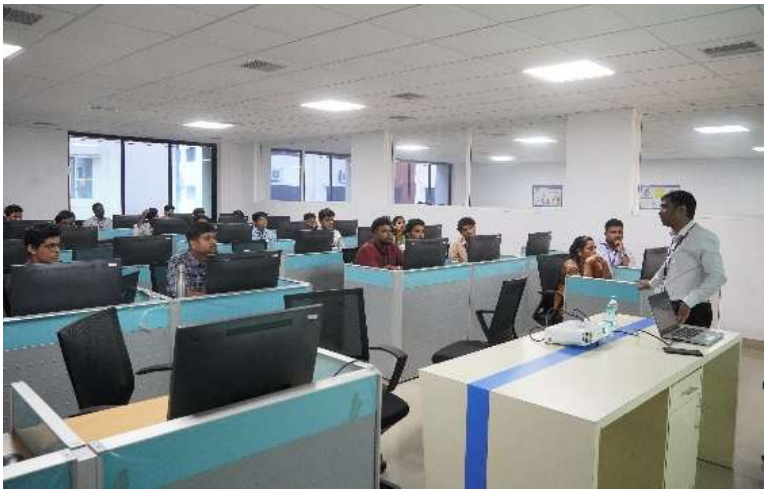
Dr. Manjunath explaining the various research funding options

Day 1:

Dr. Manjunath started the session with the basics of "research to startup". He explained how one can transform innovative research ideas into viable entrepreneurial ventures. He also highlighted the critical role of interdisciplinary collaborations. He delved into the various funding opportunities, such as government funds and research travel grants. He also spoke

about various flagship international conferences that can help gain more visibility to the researchers and potential entrepreneurs.

Next, Dr. Manjunath spoke about various research and conference databases such as IEEE. He gave practical insight on searching for relevant conferences, also gave a hands-on session on filling applications for travel and research funds. Overall, Dr. Manjunath's practical guidance bridged theoretical knowledge with actionable strategies, preparing participants to excel in competitive academic and funding environments.



Dr. Ramalingam's session on IPR and IP Management

Day 2:

Dr. Ramalingam conducted the sessions on the second day of the workshop. His talk focused on Intellectual Property Rights (IPR). He began his session by introducing the concept of IPR and explained its need. He also briefed about various types of protections one can look into during the initial phases of entrepreneurial journey. Also, differences between trademarks, design registration, copyright, and patent were discussed with real-world examples. Dr. Ramalingam also highlighted how IPR can drive commercialization and prevent unauthorized use in the startup ecosystem.

In the second session Dr. Ramalingam guided the participants through the patent application process. He gave a brief about the Indian Patent Office and its various types of application forms. Limitations of Indian patents and its applicability worldwide was explained. Participants were also briefed about the treaties like PCT. Further a hands-on session on searching worldwide patent databases was provided to the participants. Overall, Dr. Ramalingam's interactive approach built confidence in attendees, enabling them to integrate patent strategies into their research-to-startup journeys for long-term success.

MITE- KSCST IPR CELL

Evaluating Ideas for Intellectual Property Protection

Date: 24-5-2025

First Session: Patents and Patent Filing Process:

A talk was delivered on the topic of Intellectual Property Protection, with a focus on patents and their role in safeguarding innovation. The session covered the fundamental aspects of patent rights, highlighting the exclusive legal protection granted to inventors for a limited period. Key patentability criteria like novelty, inventive step, and industrial applicability were explained. The importance of patents in promoting research, protecting technological advancements, enhancing institutional value, and enabling commercialization was emphasized. The talk also outlined the patenting process, including invention disclosure, prior art search, application drafting, filing, examination, and maintenance. Additionally, an overview of IPR maturity models was provided, illustrating the stages through which institutions can enhance their IP management practices. Current patent filing trends were discussed, with particular reference to the growth in domestic filings in India and the global increase in activity.

Second Session: Idea Disclosure writing Hands-on:

Dr Suraj Bhat introduced the process of converting the idea into a written form. A granted patent was initially displayed to the participants, and its important features were highlighted. Specifically, patent title, assignee, inventors, diagrams, prior art, and claims were discussed.

Further, an Invention Disclosure Format (IDF) was displayed to the participants. A brief about how to fill the document was given along with a topic for the invention. In this session, the idea given was “A smart plate that will display the amount of calories in the food”.

Participants worked in groups to brainstorm the idea and came up with the specifics of the invention. Fields such as Title, Problem being solved, existing solutions, description of the invention, technical benefits and sketches were filled by the groups.

After a round of discussions, two groups presented their idea to the audience. In this session, the participants learned how to articulate their ideas into a written form so that it can be taken further into patenting.

Third Session: "Idea Screening Process":

Dr. Anushree Raj conducted an engaging session on the "Idea Screening Process," offering a clear and structured explanation on evaluating inventions before patenting. She began by emphasizing the importance of screening to identify patentable innovations, reduce inefficiencies, and align with organizational goals. Using slides, real-world analogies, and examples such as a smart coffee mug, she explained how to assess patentability and conduct prior art searches using tools like USPTO, EPO, WIPO, Google Patents, and Espacenet. To illustrate business and strategic fit, she compared a smart gardening glove and wearable health tech, highlighting market relevance. The concept of technical feasibility was made relatable through the example of an AI-powered smart mirror, emphasizing the need for available tools and expertise. The session concluded with a demonstration of a weighted scoring model, enabling objective idea comparison. Her delivery was interactive, insightful, and well-paced, ensuring effective audience engagement and understanding.

Dr Raghavendra Shet delivering the session

Dr Ansuhree Raj delivering the session

Dr Suraj Shet delivering the session

Participant demonstration on hands-on experience

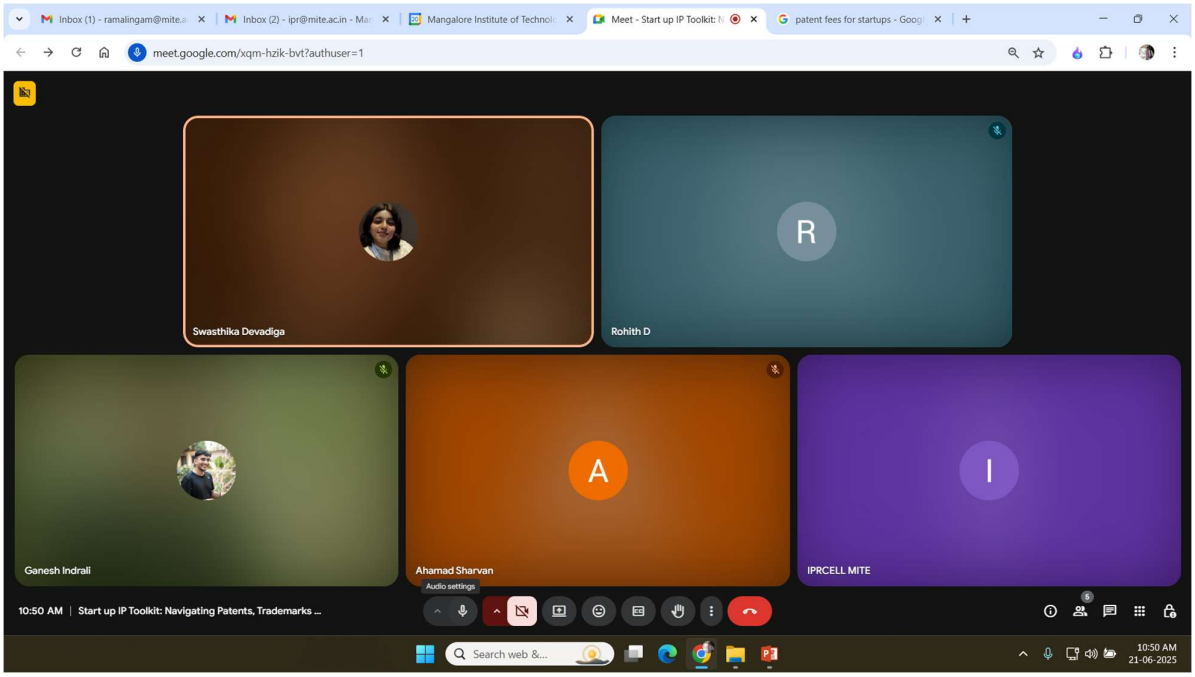
Participant demonstration on hands-on experience

MITE- KSCST IPRCELL

STARTUP IP TOOLKIT: Navigating Patents, Trademarks & More

Date: 21-06-2025

MITE-NAIN, in collaboration with MITE-KSCST IPR Cell, successfully conducted the online workshop "STARTUP IP TOOLKIT: Navigating Patents, Trademarks & More" on June 21, 2025, from 10:00 AM to 12:00 PM. The session was designed to equip startup founders with essential knowledge on safeguarding innovations and strengthening brand identity through effective Intellectual Property (IP) management. Dr.Ramalingam H M, Convener, MITE-KSCST IPR cell served as the resource person for the program.



Participants of the event in google meet

The workshop covered a comprehensive range of topics, including patents, trademarks, copyrights, and trade secrets, along with practical strategies for identifying, registering, and protecting valuable assets. Experts highlighted common mistakes made by startups in IP handling and shared actionable solutions to prevent costly disputes. The session also

demonstrated how a strong IP portfolio can enhance valuation, attract investors, and create a sustainable competitive advantage.

Participants actively engaged in interactive discussions and Q&A sessions, receiving personalized guidance from IP professionals of MITE-KSCST IPR Cell. The event received excellent feedback from attendees, who appreciated its relevance, clarity, and practical applicability to real-world startup challenges. This initiative reinforced MITE's commitment to fostering innovation, entrepreneurship, and IP awareness among aspiring founders and innovators.