

MITE-KSCST IPR Cell

Academic Year 2021-2022

| S.No | Contents | Page No |
|-------------|--|----------------|
| 1 | MITE-KSCST IPR Cell Member Details | 1 |
| 2 | Details of the Patents filed in the Academic year 2021-22 | 2 |
| 3 | Details of the Patents published in the Academic year 2021-22 | 6 |
| 4 | Details of the Patents granted in the Academic year 2021-22 | 9 |
| 4 | Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA) | 10 |
| 5 | World IP day Celebration | 11 |
| 6 | Webinar on Intellectual Property Rights by | 13 |
| 7 | Establishment of MITE-KSCST IPR Cell | 15 |
| 8 | IP Awareness Program by Dr. GopalaKrishnan | 16 |
| 9 | Student Induction Program- Introduction to Intellectual Property Rights | 19 |

Academic Year 2021-22 IP Statistics

| No of Patent Applications Filed | No of Patent Applications Published | No of Patent Applications Granted |
|--|--|--|
| 27 | 18 | 01 |
| (Complete Specification) | (Indian Patent Journal) | (Australian Patent) |

MITE-KSCST IPR Cell

Members for the Academic Year 2021-22

Along with the HoDs, the following faculty members from various departments are identified by the head of the institution as the members of the MITE-KSCST IPR Cell for the Academic year 2021-22

| S.No | Name and Designation | Role |
|------|--|----------|
| 1 | Dr. M S Ganesh Prasad, Principal | Chairman |
| 2 | Mr. Ramalingam H M, Sr.Assistant Professor, Dept. of Electronics & Communication Engineering | Convener |
| 3 | Dr. Umesh S S, Associate Professor, Dept of Civil Engineering | Member |
| 4 | Dr. Viswanath Shervegar, Associate Professor, Dept. of Electronics & Communication Engineering | Member |
| 5 | Dr. Ramanada Mallya, Sr.Assistant Professor, Dept. of Information Science & Engineering | Member |
| 6 | Dr. Rashmi K M, Associate Professor, Dept. of Mechatronics Engineering | Member |
| 7 | Mr. Shivaramu H T, Sr. Assistant Professor, Dept. of Mechanical Engineering | Member |
| 8 | Mr. Sandeep Kumar, Sr.Assistant Professor, Dept. of Computer Science & Engineering | Member |
| 9 | Mr. Sujesh Kumar, Sr.Assistant Professor, Dept. of Aeronautical Engineering | Member |
| 10 | Mr. Surjit Ram, Sr.Assistant Professor, Dept. of Humanities | Member |

MITE-KSCST IPR Cell

Details of the Patent filed In the Academic Year 2021-22

| S.No | Title of the Invention | Inventors form the institute | Application No & Date of Filing |
|------|--|--|---|
| 1 | Smart Safety Locket | Mr. Vilas Mrs. SwapnaSrinivasan Ms. Shivani Ms.Thanvi P Shetty | Application No: 202241021712 Dated 12-04-2022 |
| 2 | Ceiling Fan Mechanically Extending Connecting Tubes | Dr. M S Ganeshs Prasad Mr.Shivaramu H T Mr. Vignesh Nayak Ullal | Application No: 202241019918 Dated 1-04-2022 |
| 3 | IoT Based Emission Detection system | Mr.Krishnamoorthy K Mr. Ravinarayana B Mr. Guru Prasad Mr. Sandeep Kumar S | Application No: 202241019907 Dated 1-04-2022 |
| 4 | A Smart Crop Rescuer – From Animals | Mr. Shivaramu H T Mr. Chinmay N Naik Dr. Mohan Kumar Mr. Sridhar D R Mr. Madhusudhan B | Application No: 202241019615 Dated 31-03-2022 |
| 5 | Aqua-Q Device for Good health | Dr.Jayaprakash Dr.Srikrishna Shastri Mr. Prajwal Karkera Mr.Chidanada | Application No: 202241019398 Dated 31-03-2022 |
| 6 | Predicting Cancer and Heart Disease at Early Stages Using Machine Learning | Mr. Arjun Chandroth Ms. Anusha Ms. Meghana B Kamath | Application No: 202241019371 Dated 31-03-2022 |

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| | | Ms. Nireeksha S Amin Dr. Pradeep B S | |
| 7 | Speaker Characteristics and Surroundings identification Method for Phone Call Recordings | Mr. Poojary Sachin Mr. Adithya Shenoy H Mr. Arhanchad Ballal Mr. Nitheth Correa Dr. Puneet Mittal | Application No: 202241015678 Dated 22-03-2022 |
| 8 | Paver block with a reinforcement layer | Mrs. Anusha Jain Dr. Umesh S S | Application No: 202241015659 Dated 22-03-2022 |
| 9 | Photosynthetic: Algae Bio-Curtains with Different algae Orientation to Reduce Air Pollution | Ms.Swapna S A Dr. Ganesh Mogaveera | Application No: 202241015655 Dated 22-03-2022 |
| 10 | Systematic Approach in Developing IoT Enabled wind indicator For Agricultural Applications | Ms. Akhila Rupesh Mr. Nayak Deekshith Dayanand Ms. Shravya Devadiga | Application No: 202241015636 Dated 22-03-2022 |
| 11 | IoT Based Drone Airship for A Live Weather Monitoring | Dr. Shreekanth Patil Ms. Kavyashree P Mr. Adithya | Application No: 202241015485 Published in the Patent office Journal No. 15/2022 Dated: 15/04/2022 |
| 12 | Novel Process to Detect Freshness And quality Of Milk At Dairy | Mr. Nishchit Mr. Prathviraj Ms. Nischitha E Ms. Nithya Jain Dr. Joseph MichaelJerard V | Application No: 202241015425 Dated 21-03-2022 |
| 13 | Pro-Active Alerting System and Method for Rapid response Emergency Vehicles | Mr. Suman Ms.Ashitha Mr. Karthik N Kulal Ms. Shetty Shreya | Application No: 202241015308 Published in the Patent office Journal No. 12/2022 |

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| | | Jayaram Dr. SukhwinderSharma Mr. Ravinarayana B | Dated: 25/03/2022 |
| 14 | Surveillance Robot for Security Using Lidar during Pandemic | Ms. Samiksha N Ms. Nishmitha Ms. Nagashree Pai Mr. Sadaf Mohammed Mr. Muhammed Munaim | Application No: 202241015307 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 15 | Automatic Alert System for Monitoring And method Of Detecting Blockage in Manhole | Ms.Preethi Mr. Ranjith H D Ms.Jacintha Mathias Mr. Samanth Mr. Shreyas Hegde | Application No: 202241014951 Dated 18-03-2022 |
| 16 | Detachable Electric Wheelchair Bike for Physical Disabled Person | Mr. Ashwin Mr. Deekshith Mr. Suhas S Mr. Dhanush Shetty Mr. Sridhar D R Mr. Shivaramu H T | Application No: 202241014908 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 17 | An Energy saving and utilizing technique using the renewable and clean natural resource | Mr. Dony Armstrong D'souza Mr. Pavan Kumar | Application No: 202241014902 Dated 17-03-2022 |
| 18 | IOT Based Kitchen Cabinet and The Method of Stock Monitoring | Mr. Subraya Nayak Mr. Dhakshath L Amin Mr.Ramalingam H M Mr. Soorya Prakash Nayak Mr. Chethan | Application No: 202241014876 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 19 | Precision Agriculture Unmanned Aerial Vehicle (UAV) For Artificial Pollination of Flowers | Mr. Sumukha B Mrs. Rajeshwari Mr.Sudarshan Salian Mr.Irfad Hussain Mr. Varshith | Application No: 202241014906 Dated 17-03-2022 |
| 20 | Single Window Automate Ration Vending Machine For APL/BPL | Mr. Snehal Pradeep Shet | Application No: 202241014904 |

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| | Cardholders | Ms. Supriitha S Mr. Mohammed Gouse Inthiyaz Mr. Mohammed Sahad Mr. Madhusudhan B Mr. Shivaramu H T | Dated 17-03-2022 |
| 21 | Method of Monitoring and The Process of maintaining The Public Toilet Hygiene | Mr. Nikhil P Mahalsekar Ms. Sushmitha T Mr. Rakshith R Poojary Mr. Shreyas Ganapaiah Mr. Sathisha | Application No: 202241014886 Dated 17-03-2022 |
| 22 | Black Pepper Plucking and Separating machine | Dr.Mohan Kumar Dr. Neelakantha V Londe Mr.Shivramu H T | Application No: 202241014873 Dated 17-03-2022 |
| 23 | Big Data and cloud bursting real time intelligent scheduling using machine learning | Dr. Pradeep B S | Application No: 20214052902 Dated 17-11-2021 |
| 24 | Intelligent SIM Multiple company mobile number installed in single SIM | Dr. Pradeep B S | Application No: 202141051542 Dated 10-11-2021 |
| 25 | Internet of things & Artificial intelligence based assisting and guiding system for blind person to detect obstacles in path | Mr. Ravinarayana B Mr. Annappa Swamy D | Application No: 202141049505 Dated 29-10-2021 |
| 26 | Smart system for providing protection in card based financial private transaction through cloud computing & Blockchain technology | Mr. Ravinarayana B Mr. Annappa Swamy D | Application No: 202141049505 Dated 03-08-2021 |
| 27 | System and Method for extension to subword analysis of small vocabulary and large vocabulary ASR | Dr. Puneet Mittal Dr. Sukhwinder Sharma Mr. Ramalingam H M | Application No: 2021104848 (Australian Patent) Dated 03-08-2021 |

Details of the Patent Published in the Academic Year 2021-22

| S.No | Title of the Invention | Inventors form the institute | Application No & Date of Filing |
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| 1 | Smart Safety Locket | Mr. Vilas Mrs. Swapna Srinivasan Ms. Shivani Ms. Thanvi P Shetty | Application No: 202241021712, Published in the Patent office Journal No. 17/2022 Dated: 29/04/2022 |
| 2 | Ceiling Fan Mechanically Extending Connecting Tubes | Dr. M S Ganeshs Prasad Mr. Shivaramu H T Mr. Vignesh Nayak Ullal | Application No: 202241019918 Published in the Patent office Journal No. 15/2022 Dated: 15/04/2022 |
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| 4 | Novel Process to Detect Freshness and Quality of Milk at Dairy | Mr. Nishchit Mr. Prathviraj Ms. Nischitha E Ms. Nithya Jain Dr. Joseph Michael Jerard V | Application No: 202241015425 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 5 | Pro-Active Alerting System and Method for Rapid response Emergency Vehicles | Mr. Suman Ms. Ashitha Mr. Karthik N Kulal Ms. Shetty Shreya Jayaram Dr. Sukhwinder Sharma Mr. Ravinarayana B | Application No: 202241015308 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |

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| 6 | Surveillance Robot for Security Using Lidar during Pandemic | Ms. Samiksha N Ms. Nishmitha Ms. Nagashree Pai Mr. Sadaf Mohammed Mr. Muhammed Munaim | Application No: 202241015307 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
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| 9 | An Energy saving and utilizing technique using the renewable and clean natural resource | Mr. Dony Armstrong D'souza Mr. Pavan Kumar | Application No: 202241014902 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 10 | IOT Based Kitchen Cabinet and The Method of Stock Monitoring | Mr. Subraya Nayak Mr. Dhakshath L Amin Mr.Ramalingam H M Mr. Soorya Prakash Nayak Mr. Chethan | Application No: 202241014876 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 11 | Precision Agriculture Unmanned Aerial Vehicle (UAV) For Artificial Pollination of Flowers | Mr. Sumukha B Mrs. Rajeshwari Mr.Sudarshan Salian Mr.Irfad Hussain Mr. Varshith | Application No: 202241014906 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 12 | Single Window Automate Ration Vending Machine For APL/BPL Cardholders | Mr. Snehal Pradeep Shet Ms. Supritha S Mr. Mohammed Gouse | Application No: 202241014904 Published in the Patent office |

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| | | Inthiyaz Mr. Mohammed Sahad Mr. Madhusudhan B Mr. Shivaramu H T | Journal No. 12/2022 Dated: 25/03/2022 |
| 13 | Method of Monitoring and The Process of maintaining The Public Toilet Hygiene | Mr. Nikhil P Mahalsekar Ms. Sushmitha T Mr. Rakshith R Poojary Mr. ShreyasGanapaiah Mr. Sathisha | Application No: 202241014886 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 14 | Black Pepper Plucking and Separating machine | Dr.Mohan Kumar Dr. Neelakantha V Londe Mr.Shivramu H T | Application No: 202241014873 Published in the Patent office Journal No. 12/2022 Dated: 25/03/2022 |
| 15 | Big Data and cloud bursting real time intelligent scheduling using machine learning | Dr. Pradeep B S | Application No: 20214052902 Published in the Patent office Journal No. 20/2021 Dated: 10/12/2021 |
| 16 | Intelligent SIM Multiple company mobile number installed in single SIM | Dr. Pradeep B S | Application No: 202141051542 Published in the Patent office Journal No. 50/2021 Dated: 10/12/2022 |
| 17 | Internet of things & Artificial intelligence based assisting and guiding system for blind person to detect obstacles in path | Mr. Ravinarayana B Mr. Annappa Swamy D | Application No: 202141049505 Published in the Patent office Journal No. 46/2021 Dated: 12/11/2021 |
| 18 | Smart system for providing protection in card based financial private transaction through cloud computing & Blockchain technology | Mr. Ravinarayana B Mr. Annappa Swamy D | Application No: 202141049505 Published in the Patent office Journal No. 33/2021 Dated: 13/08/2021 |

Details of the Patent Granted in the Academic Year 2021-22

| S.No | Title of the Invention | Inventors form the institute | Application No & Date of Filing |
|------|---|--|---|
| 1 | System and Method For Extensions To Subword Analysis Of Small Vocabulary And Large Vocabulary ASR | Dr. Puneet Mittal Dr. Sukhwinder Sharma Mr. Ramalingam H M | Application No: 2021104848 Australian Patent Granted on: 15/06/2022 |

Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA)

Date: 29-04-2022

Time: 10.00AM to 12.00PM & 2.00PM to 4.00PM

On the occasion of World IP Day during the IP literacy week celebration under the Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA) was organized by MITE-KSCST IPR cell inculcation with Ministry of Education's Innovation Cell (MIC), AICTE, DPIIT, Indian Patent Office (IPO) and institutions innovation council on 29th April 2022 for the students and faculty of MITE.

Mr. Ramashih Paul, Examiner of Patents and Designs, Patent office, Chennai was the recourse person for the program. Mr. Paul has delivered various intellectual property rights, IP infringements. Process of filing applications in India. In his presentation he interacted with students and conducted a question and answer session, Students responded with correct answers were got gifts from the speaker.



Mr. Ramashih Paul's Presentation on Intellectual Properties

World IP day Celebration

Date: 26-04-2022

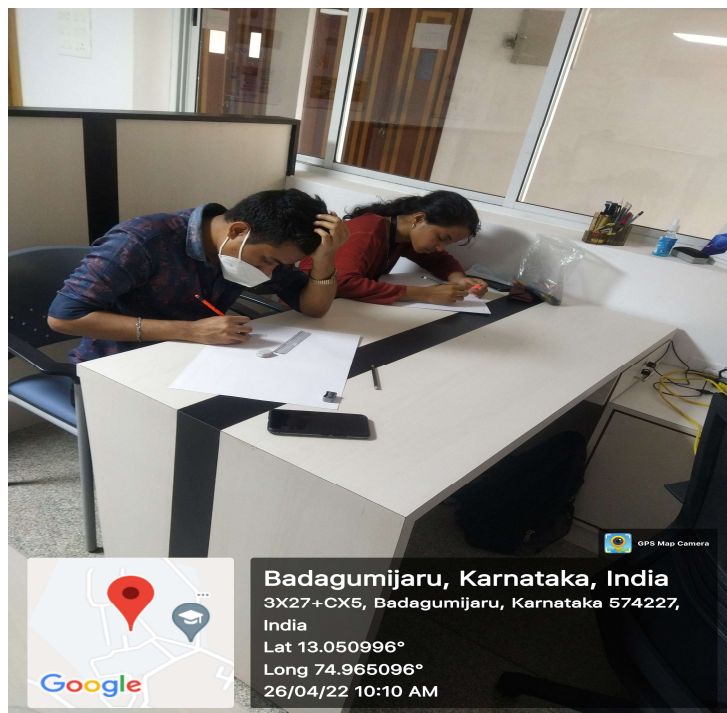
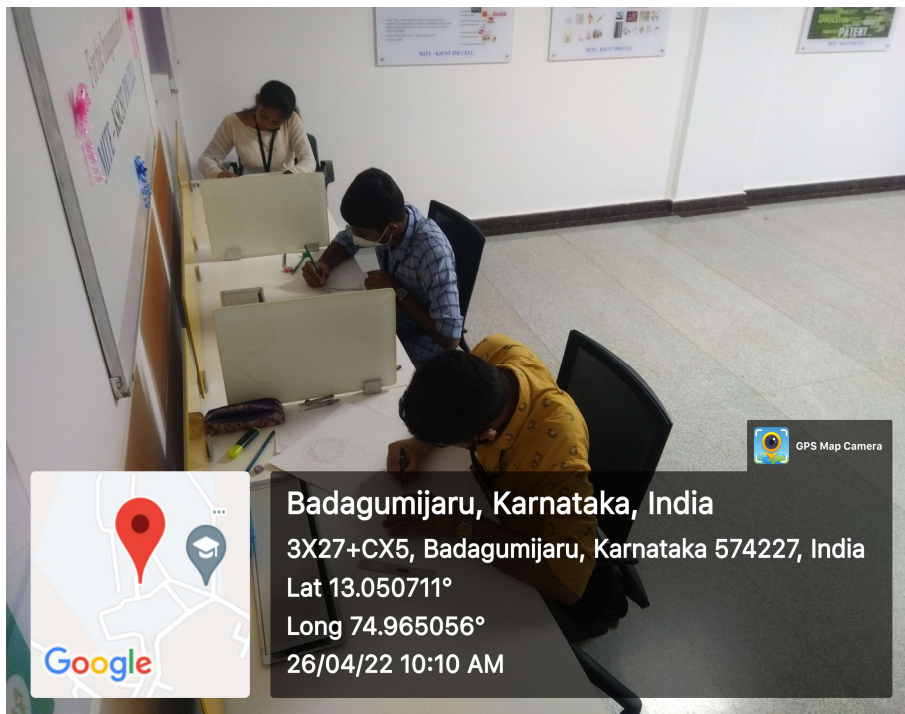
Considering the Celebration of World IP day, MITE-KSCST IPR Cell, in association with the Institution's innovation council, organized "Let's have fun with IP ", an IP Quiz and drawing competition on 26th April 2022. The primary aim of the competition is to test the understanding of intellectual property Rights, nurture creativity and talent and to promote an artistic bent of mind amongst the students. A total of 13 teams participated in the IP quiz, Mr. Radvik poonja & Team won the first prize in the competition.



IP Quiz competition in the innovation centre

The theme for the drawing competition was “Sustainable mobility”. Total of 5 students participated in the competition enthusiastically depicting their idea on sustainable mobility. Ms.

Ritika Shetty won the first prize for her amazing art work. The certificate of appreciation is provided to all the participants.



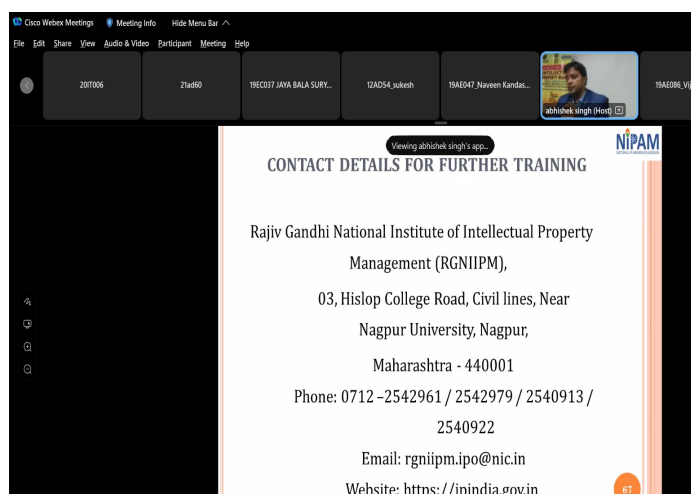
Students showcasing their intellectual idea

Webinar on Intellectual Property Rights

Date: 10-03-2022

Time: 2.30 PM

The IPR cells of MITE, NCET & SIET jointly organized a webinar on intellectual property rights, which was conducted under NIPAM (National Intellectual Property Awareness Mission), an ambitious mission of the Govt. of India. It is intended to cover a million of students (till August 15th, 2022) to make them aware of Intellectual Properties and its various aspects. It includes the understanding, technical details, filing procedures, strength of the rights and further the working of Indian Intellectual Property Offices in these respects. The eventual aim of this widespread mission is to nurture an environment in the country where people would be aware of their IP rights. Mr. Abhishek Singh, Examiner of Patents and Designs, Patent office, Chennai was the invited speaker for the webinar. The programme included topics on Patent procedures, patent informatics, patent searches, role of innovation and invention in the academic-industry, collaborations, trademark and copyright protection, do's and don'ts for a researcher in the context of publishing and patenting. There was an active interaction session at the end of the webinar. The participants remarked that the webinar was very fruitful and enriching one and commented that the webinar helped them to understand the importance of intellectual property rights in the digital world.



Mr. Abhishek Singh on his presentation in the webinar

MITE-KSCST IPR Cell

Establishment of MITE-KSCST IPR Cell

Date: 18-02-2022

Time: 3.00 PM

A Memorandum of Understanding was signed between Karnataka State Council for Science and Technology (KSCST), and Mangalore Institute of Technology & Engineering (MITE) on the 18th of February 2022 at the Innovation center, MITE. Mr. Rajesh Chowta, Chairman, MITE, Moodabidri, and Mr. H Hemanth Kumar Executive Secretary, representing KSCST, Bengaluru were the signatories. This MOU outlined the technical assistance in matters relating to Intellectual Property Rights and in joint collaboration organize conduct workshops, training programmes, research activities, and assist in further development of IPR ecosystem in the institute. Among those present were Dr. M.S. Ganesha Prasad Principal- MITE, Mr. Narendra U P, Dean T&P-MITE, Mr. Nagarjun M G, Project assistance-KSCST, Mr. Nagaraj Rao, Project Engineer- KSCST.



Mr. Rajesh Chowta and Mr. Hemanth Kumar during the MOU signing event

Subsequent to signing of the MOU, Mr. Hemanth Kumar inaugurated the MITE-KSCST IPR Cell, and delivered his inaugural address by mentioning the need of IP eco system in an educational institution and the various schemes and support facilities by KSCST for the IP protection. The faculty and students of MITE witnessed the event.



Glimpse of the MITE-KSCST IPR Cell inauguration

IP Awareness Program

Date: 10-01-2022

Session-1: 10:00AM -11:30AM

Dr. K. Gopalakrishnan presented the Need for R&D and IPR activities in Engineering institutions to the senior faculty of MITE. Dr. K. Gopalakrishnan is the Secretary-General of the Indian Technology Congress Association (ITCA) and University Space Engineering Consortium (UNISEC)-India and also Founder and Convener, instrumental in the foundation of 75 Students' Satellites Consortium: Mission 2022! To Launch 75 Satellites by 2022 to Celebrate India's Freedom 75 Years!



Dr. K. Gopalakrishnan Presenting Need for R&D Activities

Dr. K. Gopalakrishnan initiated his presentation by explaining research and innovation, *Teoriya Resheniya Izobretatelskikh Zadach* (TRIZ: Theory of Inventive problem-solving) and the advantages of TRIZ. Further, he presented the primary and secondary benefits of R&D activities, Possible R&D Activities at Educational Institutions, which gave useful insights to the audience. In

continuation to that he instructed to the faculty members to involve various activities such as publications, Intellectual property rights, Sponsored research, consultancy projects, industry sponsored lab establishment, conduct student & Faculty research awareness programs to make a real value addition their profile total of 38 faculty members participated in the interaction. The Speaker concluded the session by explaining the achievable targets.

Date: 10-01-2022

Session-2: 3:00PM -4:30PM

In the afternoon session Dr. K. Gopalakrishnan addressed the Faculty of MITE regarding Possible R&D Activities, and the Overview of IPR. He insisted all the faculty members should have the following Researcher's IDs with the Institution's affiliation

- Web of Science Researcher ID
- Google Scholar ID
- Scopus ID
- ORCID ID
- VIDWAN ID
- Publons Portal (Clarivate Analytics)



Dr. K. Gopalakrishnan Presenting the overview of IPR

Further, in his presentation he briefed various kinds of intellectual properties, Nature and definitions of intellectual properties. Specifically, in the discussion of copyrights, he explained the process of getting ISBN number and publish the subject materials prepared by the faculty members. In continuation to that he briefed the requirements of patent and design registration and IP commercialization.



Dr. C R Rajasekar honouring the chief guest

The speaker answered the questions by the audience and he conclude the session by mentioning Research is the real value addition to the faculty members of any education institution. Mrs. Keerthana, Assistant professor parented the vote of thanks and Dr. C R Rajasekar, Vice principal, MITE honoured the chief guest by presenting a memento.

Student Induction Program- Introduction to Intellectual Property Rights

Date: 05-01-2022 & 12-01-2022

As a part of student induction program for the first-year students, Introduction to Intellectual property rights is presented by Mr. Ramalingam H M, convener IPR cell- MITE, on 5-1-2022 for the physics cycle students and on 12-01-2022 for the chemistry cycle students. Mr. Ramalingam Presented various intellectual properties rights like Patents, Copyrights, design rights, Trade marks, Trade secrets and Geographical indication.



Mr. Ramalingam H M explaining the intellectual property rights

Further he presented various IP infringements and the opportunities for the engineers having IPs. The session was concluded by explaining the support from the IPR cell MITE to the students. More than 500 students got benefited by the program.