



## **ANNUAL REPORT – 2023-24**

### **Academic Committee – 2023-24**

<b>Chairperson</b>	Dr. Prashanth C M	Principal
<b>Members</b>	Prof. Jayadeva Prasad M	Director (PG Studies) & HOD MBA
	Mr. Narendra U P	Director (Placements, Training & Industrial Relations)
	Dr. C. R. Rajashekhar	Vice Principal & Head of the Department, Mechanical Engg.
	Dr. Vinayambika S. Bhat	Dean, Quality Assurance & Head of the Department, Electronics & Communication Engg.
	Mr. Sathisha	Controller of Examinations
	Dr. Pradeep B. S.	Professor & Dean R&D, CS&E, MITE
	Dr. Terence K. Johnson	Professor & Associate Dean Academics, IS&E, MITE (Member Secretary)
	Dr. Anand S. N.	Head of the Department, Dept. of Aeronautical Engg.
	Dr. Ganesha Mogaveera	Head of the Department, Dept. of Civil Engg.
	Dr. Ravinarayana B.	Head of the Department, Computer Science & Engg.
	Mr. Sunil Kumar	Head of the Dept. of AI&ML / CSE (AI&ML)
	Dr. Shivananda V. Seeri	Head of the Dept. of CSE (IoT & Cyber Security with Blockchain Tech.)
	Mr. Manjunath H.	Head of the Department, Information Science & Engg.
	Dr. Mohan Kumar Naik	Head of the Department, Dept. of Mechatronics Engg.
	Dr. Jyothi S.	Head of the Department, Mathematics
	Dr. Vineetha Telma D'Souza	Head of the Department, Chemistry
	Dr. Raghavendra Sagar	Head of the Department, Physics
Dr. Madhwaraj K. G.	Head of the Department, MCA	



## **ACADEMIC - COMMITTEE**

### **Report for the Academic Year 2023-24**

The Academic Committee of MITE serves as the apex body dedicated to shaping and guiding the institution's academic framework. It plays a pivotal role in designing and ensuring the effective execution of academic initiatives, strengthening the teaching-learning process and upholding the highest standards of education. In alignment with the academic calendar set by Visvesvaraya Technological University (VTU), Belagavi, the committee meticulously drafts the institution's calendar of events, ensuring synchronization with the university's schedule. Beyond planning, the committee actively oversees the adoption of teaching methodologies and ensures the smooth operation of classes, examinations, and all essential academic activities. The Academic Committee remains committed to excellence, ensuring that every aspect of MITE's academic functions is conducted with precision, contributing to an enriching and dynamic learning environment.

**Number of meetings conducted: 06**

<b>Sr. No</b>	<b>Date of Meeting</b>
1	02-01-2024
2	03-02-2024
3	09-03-2024
4	30-03-2024
5	24-04-2024
6	31-05-2024



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**Academic Performance:**

Our students have secured Nine university ranks in the Visvesvaraya Technological University (VTU) B.E Examination 2024. The details of the rank holders are as follows:

**List of Rank Holders:**

Sl. No	Name of Rank Holder	Department	Rank
1	Mr. Pravesh Prasanna Naik	Mechatronics	I
2	Ms. Monisha M.	Aeronautical Engineering	III
3	Mr. Shashank O. M.	Mechatronics	III
4	Ms. Ranjtha G.	Aeronautical Engineering	IV
5	Mr. Manoj Gowda B.	Mechatronics	IV
6	Mr. Tushar	Aeronautical Engineering	VI
7	Mr. Anith Kumar	Mechatronics	VII
8	Ms. Deeksha Ramesh Bhandari	Aeronautical Engineering	IX
9	Mr. Mohammed Anfal	Mechatronics	X

Our graduating batch of students of 2023-24 has secured extremely good results in the University examinations. Following are the results of students from different departments:

Sl. No.	Department	Total Number of Students	Number of Students Appeared	FCD	FC	SC	Overall Result (%)
1	Aeronautical Engineering	58	58	58	NIL	NIL	100
2	Civil Engineering	15	15	13	NIL	NIL	87
3	Computer Science & Engineering	186	185	180	5	NIL	99.46



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4	Electronics & Communication Engineering	87	87	84	2	1	98
5	Information Science & Engineering	58	58	58	NIL	NIL	100
6	Mechatronics Engineering	30	29	29	NIL	NIL	100
7	Mechanical Engineering	21	21	21	NIL	NIL	100
8	MBA	119	119	98	18	NIL	97.48
9	MCA	60	60	58	NIL	NIL	96.66

### Autonomous Status:

MITE has been honored with the prestigious Autonomous Status for a period of ten years by the University Grants Commission (UGC). This remarkable milestone stands as a testament to the institution's dedication and commitment to academic excellence and progressive growth. The achievement has been further affirmed and officially endorsed by the Government of Karnataka and Visvesvaraya Technological University (VTU), marking a new chapter of growth and distinction in MITE's illustrious journey. This resulted in the first batch of students joining the Autonomous Bachelor of Engineering program in this academic year 2023-24.

### Awards and Recognitions:

Proposals submitted by the students of our institution were funded by the **Karnataka State-Council for Science and Technology (KSCST)** for their innovative ideas **continuously every year** since 2012-13. During the academic year 2023-24, a total of **24 final year Projects were financially supported by KSCST** by considering the innovative concepts and ideas under various themes.

Sl. No.	Department	Number of Projects
1	Aeronautical Engineering	6
1	Civil Engineering	1
2	Computer Science & Engineering	6



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3	Electronics and Communication Engineering	4
4	Information Science & Engineering	2
5	Mechanical Engineering	1
6	Master of Business Administration	2
7	Master of Computer Applications	2
<b>Total Number of Projects</b>		<b>24</b>

- Our students are achieving the **Best Project Award from KSCST** from last 8 years continuously. During the academic year 2023-24, out of 24 projects, **2 projects** have been awarded as the **Best project of the State** after the State level evaluation of the projects by the expert committee of KSCST. The details of the project are as follows:

Department	Project Title	Guide	Students
Computer Science & Engineering	A Deep Learning Approach to Detect Rheumatoid Arthritis Using X-Ray Images and Bio-Markers	Dr. Pradeep B. S.	Mr. Sourabh P. Mr. Shreyas S Tantri Mr. Shreyas Shetty B. Mr. Vinayak Nayak N.
Electronics & Communication Engineering	Sewage Pipe Crawling Robot	Dr. Sri Krishna Shastri C.	Mr. Ranjan Mr. Nisar Ahmed Mr. Abhijith M. Naik Mr. Adithya Bhat

- Students' teams from the Department of Mechanical Engineering at Mangalore Institute of Technology & Engineering (MITE) achieved remarkable success at the 13th Edition of ANVESHANA, a prestigious National-Level Project Championship organized by Agastya International Foundation in collaboration with Synopsys. The talented teams secured the 3rd and 4th prizes, earning cash awards of ₹20,000 and ₹15,000, respectively. One team from the Department of Mechanical Engineering received a consolation prize, further highlighting the department's innovation and excellence. Among 47 teams from engineering colleges in Karnataka and Tamil Nadu advancing to the grand finale, MITE proudly had six teams selected for the final stage, representing the departments of Aeronautical, Mechanical, Civil, Electronics & Communication, and Mechatronics Engineering. This achievement underscores MITE's



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commitment to nurturing and promoting innovation and excellence, reflecting the outstanding talent and dedication of its students. The details of the prize-winning teams and the mentors are as follows:

Project Title	Students	Project Guide	Rank
Pine Pod Transplanter	Pradhyumna Murthy, Rohith Kumar, S Murali Krishna	Dr. Mohan Kumar	3 <sup>rd</sup> Prize R. 20, 000/-
Two Motion Accelerator Grip for Scooters	Leston Pinto, Sayyed Afnan, K Athul Bhat	Dr. Shivaramu H T	4th Prize R. 15, 000/-
Bine crafter	Pranam, Prasanna Kumar B, Krithik	Dr. Shivaramu H T	Consolation Prize R. 5000/-

**Accreditation:**

- ❖ The institution is conferred by Autonomous Status by University Grants Commission (UGC), New Delhi from the academic year 2023-24.
- ❖ The institution has been ranked in 150-300 under Innovation Ranking by The National Institutional Ranking Framework (NIRF), an initiative by Ministry of Education.
- ❖ Department of Electronics & Communication Engineering got accreditation status granted by NBA for the period from the AY 2024-25 to AY 2026-27.

**Details of Conferences, Workshops and FDPs organized in the Campus**

Sl. No	Department/Committee/Cell	Title of the event	Event Type	Date From	Date to
1	Computer Science & Engineering	Applied Data Science with R	Workshop	15/07/2024	17/07/2024
		International conference on Intelligent Systems in Computing & Communication- ISCComm-2023)	International Conference	08/12/2023	09/12/2023
2	Electronics & Communication Engineering	International conference on Intelligent Systems in Computing & Communication- ISCComm-2023)	International Conference	08/12/2023	09/12/2023



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3	Information Science & Engineering	Empowering with Software Engineering Tools & Practices	Workshop	21/06/2024	22/06/2024
		Applications of IoT	Workshop	15/02/2024	17/02/2024
		Pixel Perfection: Automating Visual Enhancement Algorithms	Hands-on Workshop	29/01/2024	31/01/2024
		Arduino & Tinkercad	Hands-on Workshop	22/01/2024	24/01/2024
4	Mechatronics Engineering	Industrial Automation using PLC	Workshop	30/11/2023	02/12/2023
		Internet Safety And Ethical Hacking	Workshop	21/12/2023	--
		Mechatronics System Product Design	Hands-on Session	11/01/2024	--
		Industrial Automation Using Hydraulics, Pneumatics, And Programmable Logic Controller	Workshop	22/05/2024	24/02/2024
		Industrial Applications of Internet of Things	Hands-on Session	27/06/2024	28/06/2024
		Embedded Artificial Intelligence System Design	Workshop	12/07/2024	13/07/2024
		ABB Robot Programming	Faculty Development Program	15/07/2024	17/07/2024
5	Mechanical Engineering	Advanced Machining Process	Workshop	14/7/2023	14/7/2023
		Mastering Control System: A MATLAB Workshop on Root-Locus and Bode Plots	Workshop	20/11/2023	21/11/2023
		Programming methods for Efficient Motion and Control	Workshop	21/06/2024	22/06/2024
		Computer Aided Design Using Solid Works	Workshop	04/07/2024	06/07/2024
		Additive Manufacturing for Research and Innovation	Faculty Development Program	29/01/2024	02/02/2024
		Energy Management & performance optimization for sustainable E-Mobility	FDP	08/01/2024	03/01/2024
6	MBA	1. Banking Sector Issues and Challenges	Workshop	22.12.2023	23.12.2023
		2. Innovation and Marketing	Workshop	08.08.2024	09.08.2024
		3. Tax and Investment Insights in Dgital Era	Worshop	04.09.2024	05.09.2024



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7	MCA	IOT with ESP32	Hands-on Workshop	23/12/2023	23/12/2023
		Data Analytics and Visualization	Hands-on Workshop	23/01/2024	23/01/2024
		MITE- SAP Hackfest-24	Hackfest	10/05/2024	10/05/2024
		Object-Oriented Design using UML	Hands-on Workshop	27/04/2024	30/04/2024
		Unleash the potential of Web-Angular JS, React JS and MERN stack	Hands-on Workshop	18/05/2024	18/05/2024
		Image Processing Essentials	Hands-on Workshop	13/08/2024	20/08/2024

**Intellectual Property Rights:**

In the Academic Year 2023-24, a total of 5 patent applications have been filed by our faculty members and students, out of which 1 patent has been granted and 11 patents have been published by the patent office:

**Details of the Patents Filed**

Name of the Inventor From the Institution	Title of the Invention	Application No & Date of Filing
Mr. Yuvaraj K B Mr. Arun Krishnan Mr. Sridhar D R Mr. Sridhar D R Mr. Praktyath K H	Writing Instrument with Flexible Length For Compact Storage	202441054889, 18-07-2024
Mr. Santhosh Achar Dr. Mohan kumar Dr. Neelakantha V Londe	Arecanut Collecting Device	202441053810, 15-07-2024
Sayed Afnan Sayed Afnan Leston Pinto Karpe Athul Bhat Yuvaraj K B	Coupling accelerator throttle tube for safety	202441036957, 10-05-2024
Manoj B Gowda Suchit C S Kiran Kumar	Biomimetic Remote Operated Vehicle For Underwater Survey	202441037089, 10-05-2024





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Mr. Santhosh Achar Dr. Mohan kumar Dr. Neelakantha V Londe	Arecanut Collecting Device	202441053810, 15-07-2024
Disha V S Kiran H Bailapattar Niraj Prabhu Sidharath Dembi Anand S N	Novel Tulip Type Vertical Axis Wind Turbine Blade	02441036166, 07-05-2024

### **Details of the Patents Granted**

<b>Name of the Inventor From the Institution</b>	<b>Title of the Invention</b>	<b>Application No &amp; Date of Grant</b>
Dr. M S Ganeshs Prasad Mr. Shivaramu H T Mr. Vignesh Nayak Ullal	Ceiling Fan Mechanically Extending Connecting Tubes	No:202241019918 Granted On: 22-04-2024

### **Details of the Patents Published**

<b>Title of the Invention</b>	<b>Inventors form the institute</b>	<b>Application No. &amp; Date of Filing</b>
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 Published in the Patent office Journal No. 40/2023 Dated: 29/09/2023



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Paver block with a reinforcement layer	Mrs. Anusha Jain Dr. Umesh S S	Application No: 202241015659  Published in the Patent office Journal No. 40/2023 Dated: 29/09/2023
Photosynthetic: Algae Bio-Curtains with Different algae Orientation to Reduce Air Pollution	Ms.Swapna S A Dr. Ganesh Mogaveera	Application No: 202241015655  Published in the Patent office Journal No. 40/2023 Dated: 29/09/2023
Systematic Approach in Developing IoT Enabled wind indicator For Agricultural Applications	Ms. Akhila Rupesh Mr. Nayak Deekshith Dayanand Ms. Shravya Devadiga	Application No: 202241015636  Published in the Patent office Journal No. 40/2023 Dated: 29/09/2023
IoT Based Emission Detection system	Mr.Krishnamoorthy K Mr. Ravinarayana B Mr. Guru Prasad Mr. Sandeep Kumar S	Application No: 202241019907  Published in the Patent office Journal No. 40/2023 Dated: 06/10/2023
Predicting Cancer and Heart Disease at Early Stages Using Machine Learning	Mr. Arjun Chandroth Ms. Anusha Ms. Meghana B Kamath Ms. Nireeksha S Amin Dr. Pradeep B S	Application No: 202241019371  Published in the Patent office Journal No. 40/2023 Dated: 06/10/2023
Aqua-Q Device for Good health	Dr.Jayaprakash Dr.Srikrishna Shastri Mr. Prajwal Karkera Mr.Chidanada	Application No: 202241019398  Published in the Patent office Journal No. 40/2023 Dated: 06/10/2023



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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 Published in the Patent office Journal No. 40/2023 Dated: 06/10/2023
Novel Tulip Type Vertical Axis Wind Turbine Blade	Disha V S Kiran H Bailapattar Niraj Prabhu Sidharath Dembi Anand S N	Application No: 02441036166 Published in the Patent office Journal No. 20/2024 Dated 17/05/2024
Biomimetic Remote Operated Vehicle For Underwater Survey	Manoj B Gowda Suchit C S Kiran Kumar	Application No: 202441037089 Patent Office Journal No. 20/2024 Dated 17/05/2024
Coupling accelerator throttle tube for safety	Sayyed Afnan Sayyed Afnan Leston Pinto Karpe Athul Bhat Yuvaraj K B	Application No: 202441036957 Patent Office Journal No. 20/2024 Dated 17/05/2024

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