



MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

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

(A Unit of Rajalaxmi Education Trust®, Mangalore-575001)

Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

RESEARCH COUNCIL

ANNUAL REPORT - 2022

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1. Research Council for the Year 2022

Sr. No	Role	Name and Designation
1	Chairperson	Dr. M S Ganesha Prasad, Principal
2	Member	Dr. Divakara Shetty S, Dean (Academics)
3		Dr. C R Rajashekar, Vice Principal and Head, Dept. of Mechanical Engg
4		Dr. Ganesha Mogaveera, Professor and Head, Dept. of Civil Engg
5		Dr. Anand S N, Associate Professor and Head, Dept. of Aeronautical Engg
6		Dr. V. Joseph Michael Jerard, Professor, Dept. of Information Science & Engg
7		Dr. Vasanth Kumar S, Senior Assistant Professor Dept. of Mathematics
8		Mr. Jayadeva Prasad M, Professor and Head, Dept. of Master of Business Administration
9		Dr. Vishwanath Madhava Shervegar, Associate Professor, Dept. of Electronics & Communication Engg
10		Dr. Pradeep B S, Professor, Dept. of Computer Science & Engg
11		Dr. Lokesha M, Professor and Head, Dept. of Mechatronics Engg
12		Dr. Puneeth Mittal, Associate Professor and Head, Dept. of Artificial Intelligence & Machine Learning
13		Dr. Vineetha Telma D'souza, Senior Assistant Professor & Head, Dept. of Chemistry
14	Convener	Dr. Raghavendra Sagar, Associate Professor & Head, Dept. of Physics



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2. Overview

Mangalore Institute of Technology & Engineering (MITE) continued to make significant progress during the year 2022 in its research activities. Currently MITE host 18 research guides recognized by VTU, Belagavi and 4 guides to guide PhD Scholars for the doctoral degree from VTU and other universities.

Eight research scholars registered under MITE research centers have submitted their PhD thesis during the years 2022.

The faculty of MITE published 119 full-length papers in reputed SCI/Scopus and other indexed journals. MITE faculty also presented their research work in various National/International Conferences and 20 full length papers were published in the conference proceedings.

A talk on “Effectiveness of Writing Research Proposals to Funding Agencies” was conducted on 17th September 2022 in association with ISTE and Research Council of MITE.

MITE also received good amount of research grants from external funding agencies. Dr. Ganesh Mogaveera HOD, Department of Civil Engineering and Professor Anusha Jain received an external research fund for a project titled “Experimental Investigation on Behavior of GPC Bloch Arches and Validation Using ANN” from Visvesvaraya Technological University (VTU) Belagavi. The research proposal titled “Development of Humanoid Robotic Arm based Personal Massager with Human Tuch” submitted to VTU, Belagavi under VTU Research grants by Dr. Sukhwinder Sharma and and Dr. Pradeep B S from Dept. of Computer Science and Engineering is selected for the research grant. Rajalaxmi Education Trust, Mangalore also allotted a research grant of Rs. 3.00 Lakh for NBA accredited programs, Rs. 2.00 Lakh for non accredited Engineering programs and Rs. 1.00 Lakh for Basic Science departments to upgrade the research infrastructure.



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3. Research Progress Details

Table 1: The details of research centers, researchers and the progress made during the year 2022.

Sr. No	Details of Research activities	
1	No. of VTU, Belagavi recognized research centers in MITE	07
2	No. of Research Guides recognized by VTU, Belagavi in MITE	18
3	No. of Other university recognized guides in MITE	04
4	No. of PhD Scholars registered in MITE research centers	38
5	No. of scholars submitted their thesis	05
6	No. of Faculty pursuing PhD from other research centers/university	03
7	No. of Ongoing Funded Projects in MITE	06

Table 2: Current status of PhD scholars registered under MITE research center.

Research Center	Coursework progress in	Course work completed	Comprehensive viva completed	Thesis submitted
Civil Engineering	-	-	3	-
Computer Science and Engineering	-	1	3	2
Mechanical Engineering	2	-	10	2
Electronics & Communication Engineering	1	-	-	-
Mathematics	-	4	3	1
Chemistry	-	1	1	-
Physics	-	-	2	2

Table 3: The details of Scholars submitted their PhD thesis during the Year-2022.

Sr. No	Name of Scholar	Guide	Research center	Title of Thesis
1	Nayana Acharya	Dr. Raghavendra Sagar	Physics	Development and Study of Modified Spinels as Protective Coating on SOFC Interconnects
2	Sathyanarayana Bhat P	Dr. Asha Rao	Physics	A Comparative Study on the radiation effects on multi junction solar cells
3	Bharath Kumar Madakatte	Dr. Nagesh H R	Computer Science & Engineering	Identification and validation of patterns in virtual machine scheduling algorithms for Eucalyptus Cloud
4	Ravinarayana B	Dr. Nagesh H R	Computer Science & Engineering	Design and development Secure framework for mitigating attacks on availability of virtual machines in cloud computing
5	Renita Sharon Monis	Dr Asha Crasta	Mathematics	Estimation of Unsteady Stability Derivatives of Delta Wings in High Speed Flow

4. Publication Details

Table 4: The details of department-wise publication for the Year-2022.

Sl. No	Department	No of publications	Scopus indexed	Other
1	Aeronautical Engg.	2	2	-
2	AI & ML	1	1	-
3	Civil Engg.	20	1	19
4	Computer Sci. and Engg.	29	2	27
5	Electronics and Comm. Engg	24	6	18
6	Mechanical Engg.	31	6	25
7	Mechatronics	1	1	-
8	Chemistry	1	1	-
9	Physics	6	6	-
10	MBA	4	4	-
	Total	119	30	89

Table 5: The details of department-wise conference proceedings, books and book chapters published during the Year -2021.

Sl. No	Department	No of Proceedings	No of Chapters
1	Aeronautical Engg.	4	-
2	AI & ML	3	
3	Electronics and Comm. Engg	1	1
4	Civil Engg.	2	-
5	Mechanical Engg.	7	
6	Mathematics	3	
	Total	20	1



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5. Activities Conducted

1. **Title** : **Role of Teachers – NEP – 2020**

Dates conducted : **24th August 2022**

Keynote Speaker : **Dr. K Balaveera Reddy**





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2. Title : Research Proposal Writing and Funding Opportunities
- Dates conducted : 17th September 2022
- Keynote Speaker : Dr. Hemanth Kumar, Associate Professor, NITK, Surathkal



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Badaga Mijar, Moodabidri, D K Dist, Karnataka - 574225





Indian Society for Technical Education (ISTE)
in Association with



Research Council of MITE organises a Technical talk on
"Effectiveness of Writing Research Proposal to Funding Agencies"



Dr. Hemanth Kumar
Associate Professor, Dept. of Mechanical Engineering,
NITK, Surathkal

Venue: Audi II Date: 17 Sep 2022 Time: 10:00AM



6. Status of Funded Projects

Table 6: Details of the ongoing funded projects during the year 2022.

Sl. No	Title of project	Principle Investigator	Grant Agency	Current status	Grants mobilized (in Lakh)
1	Technology-based agriculture sensors	Dr. Venkataramana Bhat P	Vision group of Science and Technology (VGST), Govt. of Karnataka	Ongoing	40.00
2	Sustainable Grey water Management System using Phytoremediation Technique	Dr. Jayaprakash M C	Vision group of Science and Technology (VGST), Govt. of Karnataka	Utilization Certificate Submitted	05.00
3	Quality Improvement & Up-Gradation of the Existing Fish Meal and Fish Oil Industries and Extraction of Bio-diesel & Fishnure in Ecofriendly environment from their products	Dr. Lokesh	Karnataka Council for Technological Upgradation	Ongoing	42.00
4	Improvement of Industrial Wastewater Treatment Process through Robust Controller Design	Dr Vinayambika S Bhat (PI), & Dr Sukhwinder Sharma (Co-PI)	Vision group of Science and Technology (VGST), Govt. of Karnataka	Ongoing	2.97
5	Experimental Investigation on Behavior of GPC Bloch Arches and Validation Using ANN..	Dr. Ganesh Mogaveera (PI) & Prof. Anusha Jain (Co-PI)	Visvesvaraya Technological University	Ongoing	10.00
6	Development of Humanoid Robotic Arm based Personal Massager with Human Tuch	Dr. Sukhwinder Sharma (PI) & Dr. Pradeep B S (Co-PI)	Visvesvaraya Technological University	Ongoing	8.00

7. Institution Grants for Research

Table 7: Details of funds allocated from the Institution towards the improvement of research infrastructure.

Sr. No	Department	Funds allotted (Rs)	
		Research Infrastructure	Amount utilized
1	Civil Engineering	3,00,000	Procurements under progress
2	Computer Science and Engineering	3,00,000	4,08,870/-
3	Electronics & Communication	3,00,000	1,15,690/-
4	Mechanical Engineering	3,00,000	Procurements under progress
5	Mathematics	1,00,000	Procurements under progress
6	Chemistry	1,00,000	Procurements under progress
7	Physics	1,00,000	Procurements under progress

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