



Mangalore Institute of Technology and Engineering

An ISO 9001:2015 Certified Institution, Accredited by NAAC

(A Unit of Rajalaxmi Education Trust)

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

RESEARCH COUNCIL

ANNUAL REPORT - 2021

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1. Research Council for the Year 2021

Sr. No	Role	Name and Designation
1	Chairperson	Dr. G L Easwara 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. Venkatramana Bhat P, Professor and Head, Dept. of Computer Science & Engg
5		Dr. Ganesha Mogaveera, Professor and Head, Dept. of Civil Engg
6		Dr. G Purushotham, Professor and Head, Dept. of Aeronautical Engg
7		Dr. V. Joseph Michael Jerard, Professor, Dept. of Information Science & Engg
8		Dr. Asha Crasta, Associate Professor and Head, Dept. of Mathematics
9		Mr. Jayadeva Prasad M, Professor and Head, Dept. of Master of Business Administration
10		Dr. Vishwanath Madhava Shervegar, Associate Professor, Dept. of Electronics & Communication Engg
11		Dr. Vineetha Telma D'souza, Sr. Assistant Professor & Head, Dept. of Chemistry
12		Dr. Pradeep B S, Professor, Dept. of Computer Science & Engg.
13		Dr. Lokesha M, Professor and Head, Dept. of Mechatronics Engg.
14	Convener	Dr. Raghavendra Sagar, Associate Professor & Head, Dept. of Physics



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2. Overview

Mangalore Institute of Technology & Engineering (MITE) has made remarkable progress during the year 2021 in the research activities. Currently MITE host 14 research guides recognized by VTU, Belagavi to guide PhD Scholars for the doctoral degree from MITE Research Centers.

Three research scholars registered under MITE research centers were awarded PhD during the years 2021. Three scholars also submitted their PhD thesis to VTU Belagavi and successfully defended the final viva-voce during the year 2021.

The faculty of MITE published 70 full-length papers in reputed SCI/Scopus and other indexed journals and. MITE faculty also presented their research work in various National/International Conferences and 30 full length papers were published in the conference proceedings.

The Department of Mechanical Engineering in association with ISTE organized an online talk on “Research Proposal Writing and Funding Opportunities” on 24th April 2021. Department of Civil Engineering organized a 5 day faculty development program on “Design and Construction Practices of Bridges” from 30th August to 3rd September 2021. The Department of Aeronautical Engineering organized a 5 day online Faculty Development Program on “Electric Vehicles” from 4th to 8th October.

MITE also received significant research grants from external funding agencies. Dr. Vinayambika Bhat, Professor and Head, Department of Electronics and Communication received an external research fund for a project titled “Improvement of Industrial Wastewater Treatment Process through Robust Controller Design” from Vision Group on Science and Technology, Govt. of Karnataka. The research proposal titled “A Novel Artificial Intelligence-based UAV for COVID19, agricultural, and disaster management applications” submitted to AICTE, New Delhi under research promotion scheme by Dr. Rajashekar C R, Vice-Principal is approved for the research grant. Rajalaxmi Education Trust, Mangalore also allotted a research grant of Rs. 2.00 Lakh for Engineering 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 2021.

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	13
3	No. of Other university recognized guides in MITE	04
4	No. of PhD Scholars registered in MITE research centers	35
5	No. of PhD's awarded	06
6	No. of Faculty pursuing PhD from other research centers/university	20
7	No. of Ongoing Funded Projects in MITE	05

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

Research Center	Coursework in progress	Course work completed	Comprehensive viva completed	Thesis submitted
Civil Engineering	2	2	1	-
Computer Science and Engineering	-	2	4	-
Mechanical Engineering	3	4	5	
Mathematics	1	1	2	-
Chemistry	-	1	1	-
Physics	-	1	3	-



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Table 3: The details of Scholars defended their final Viva-voce during the Year-2021.

Sr. No	Name of Scholar	Guide	Research center	Title of Thesis	Date of Viva voce
1	Mohankumar	Dr.Neelakantha V L	Mechanical Engineering	Characterization of Fatigue and Fracture Behavior of Rod inserted concentric composite tubes of high strength metallic materials	21/07/2021
2	Sunil Kumar B V	Dr.Neelakantha V L	Mechanical Engineering	Fracture Characterization of Carbon-Carbon Composites	29/09/2021
3	Sunil Kumar S	Dr.Neelakantha V L	Mechanical Engineering	A study on influence of corrosive environment on Fracture properties of high strength metallic materials.	29/10/2021



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4. Publication Details

Table 4: The details of department-wise publication for the Year-2021.

Sl. No	Department	No of publications	Scopus indexed	Other
1	Aeronautical Engg.	5	3	2
2	Civil Engg.	7	6	1
3	Computer Sci. and Engg.	9	9	-
4	Electronics and Comm. Engg	4	4	-
5	Mechanical Engg.	11	11	-
6	Mechatronics	14	10	4
7	Chemistry	4	4	-
8	Physics	12	12	-
9	MBA	4	2	2
	Total	70	61	9

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 Proceedings Chapters
1	Aeronautical Engg.	6	-
2	Electronics and Comm. Engg	1	-
3	Chemistry	2	-
4	Physics	2	-
5	MBA	1	-
6	Civil Engg.	2	-
7	Artificial I and ML Engg.	2	-
8	Mechanical Engg.	13	2
9	Computer Sci. and Engg.	3	1
	Total	32	3



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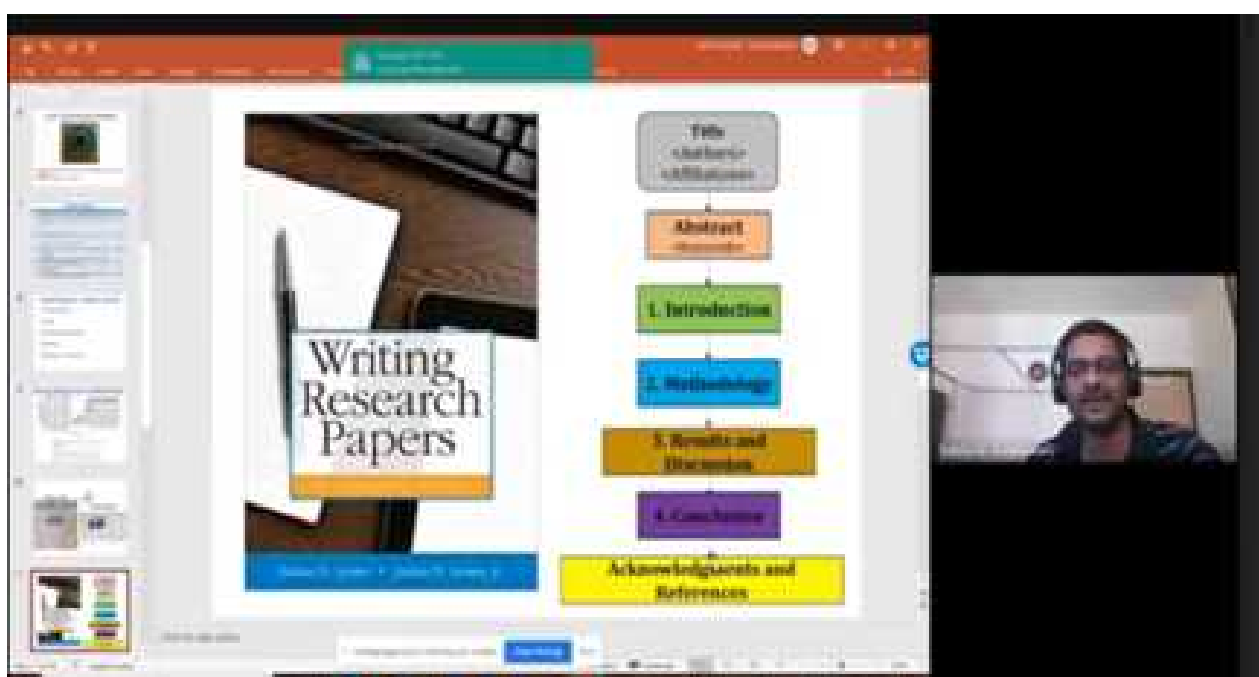
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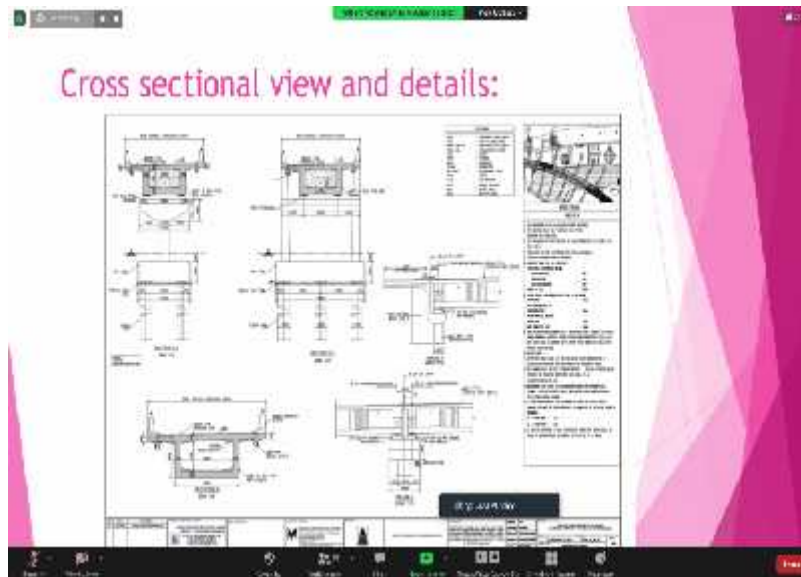
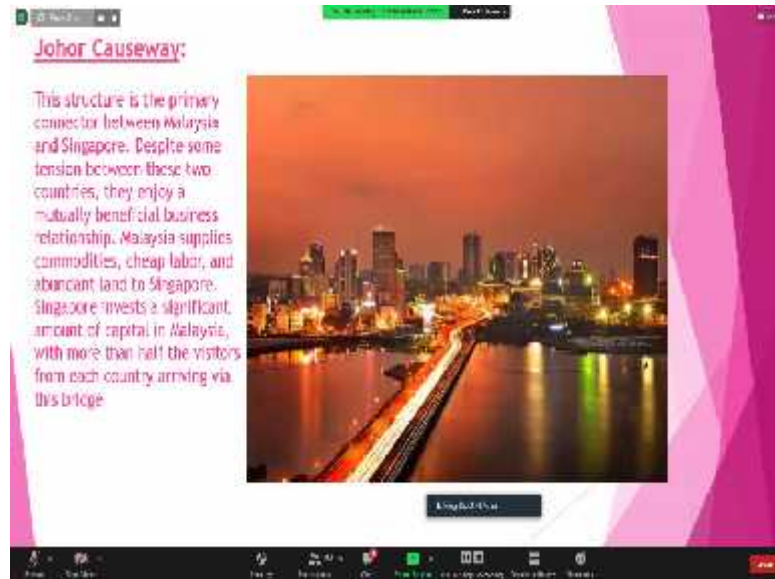
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5. Activities Conducted

- Title** : Research Proposal Writing and Funding Opportunities
Dates conducted : 26th April 2021
Keynote Speaker : Dr. Mrityunjay Doddamani, Assistant Professor, NITK, Suratkal



2. **Title** : Online FDP on Design and Construction Practices of Bridges
- Date conducted** : 30th August to 3rd September 2021
- Resource person** : Dr. M M Achar, Vinaxo Consulting Services





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- 3. Title :** 5 Day FDP on Electric Vehicles
Date conducted : 4th to 8th October 2021



Mr. Manjunath Mysore
Staff Engineer CAE
Tesla, California, United States



Mr. Jitender Yadav
Product Manager
Berkadia, Hyderabad



Dr. Ramy Harik
University of South Carolina
United States



Dr. Roopa M
ME, Ph.D. (IISc Bangalore)
Energy Institute, Bangalore



Dr. Sudhir Kumar Chaturvedi
Associate Professor, Dept. of AE
UPES, Dehradun



Ms. Nikhitha
Co-founder & CEO
SSERD



Mr. Sreeraman
Manager
AIIRF, Annamalai University



Mr. Kartikesh Kumar Jha
Power Electronics Engineer
ARK Infosolutions



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6. Status of Funded Projects

Table 6: Details of the ongoing funded projects during the year 2021.

Sl. No	Title of project	Principle Investigator	Grant Agency	Current status	Grants mobilized (in Lakh)
1	A study on enhancement of efficiency of solar cell by various modification techniques and Synthesis/Characterization of NLO materials	Dr. Raghavendra Sagar	Vision group of Science and Technology (VGST), Govt. of Karnataka	Utilization certificate Submitted	60.00
2	Fabrication of Graphene/bio-waste based hybrid system as flexible and high performance supercapacitors	Dr. Raghavendra Sagar	TEQIP Cell, VTU Belagavi	Utilization certificate Submitted	02.00
3	Technology-based agriculture sensors	Dr. Venkataramana Bhat P	Vision group of Science and Technology (VGST), Govt. of Karnataka	Ongoing	40.00
4	Sustainable Grey water Management System using Phytoremediation Technique	Dr. Jayaprakash M C	Vision group of Science and Technology (VGST), Govt. of Karnataka	Ongoing	05.00
5	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
6	Improvement of Industrial Wastewater Treatment Process through Robust Controller Design	Dr Vinayambika S Bhat, & Dr Sukhwinder Sharma	Vision group of Science and Technology (VGST), Govt. of Karnataka	Sanctioned	2.97
7	A Novel AI based UAV for COVID-19, Agricultural & Disaster Management applications	Dr. C R Rajashekhar	AICTE, New Delhi	Approved	24.97



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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	2,00,000	Procurements under progress
2	Computer Science and Engineering	2,00,000	Procurements under progress
3	Electronics & Communication	2,00,000	Procurements under progress
4	Mechanical Engineering	2,00,000	Procurements under progress
5	Mathematics	1,00,000	Procurements under progress
6	Chemistry	1,00,000	66,376
7	Physics	1,00,000	Procurements under progress

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