

RESEARCH COUNCIL

ANNUAL REPORT - 2019

Sr. No	Contents
1	Research Council for the Year 2019
2	Overview
3	Research Progress Review
4	Publication
5	Research Promotion Activities
6	Funded Projects Details
7	Institution Grants for Research

1. Research Council for the Year 2019

Sr. No	Role	Name and Designation
1	Chairperson	Dr. G L Easwara Prasad, Principal
2	Members	Dr. C R Rajashekar, Vice Principal and Head, Dept. of Mechanical Engg
3		Dr. Venkatramana Bhat P, Professor and Head, Dept. of Computer Science & Engg
4		Dr. Ganesha Mogaveera, Professor and Head, Dept. of Civil Engg
5		Dr. G Purushotham, Professor and Head, Dept. of Aeronautical Engg
6		Dr. Asha Crasta, Associate Professor and Head, Dept. of Mathematics
7		Mr. Jayadeva Prasad M, Professor and Head, Dept. of Master of Business Administration
8		Dr. Raghavendra Sagar, Senior Assistant Professor, Dept. of Physics
9	Convener	Dr. Ganesh Aithal, Dean Research



Mangalore Institute of Technology and Engineering

(An ISO 9001:2015 Certified Institution)

(A Unit of Rajalaxmi Education Trust)

Badaga Mijar, Moodabidri-574225

2. Overview

During the year 2019, Mangalore Institute of Technology & Engineering (MITE) has made significant progress in its research accomplishments. A total of 9 research scholars registered in MITE research centers to pursue their Ph.D. Degree. MITE research centers have 15 VTU recognized research guides for guiding PhD's in the year 2019.

Faculty members of MITE published 54 full-length papers in reputed National and International journals indexed by SCI, Scopus and other indexed publications. Faculty members also presented the research output in National/International conferences and published 6 conference full-length papers in Scopus and other indexed proceedings.

The Department of Mechanical Engineering organized a technical talk on "Failure Analysis" in the context of materials and structures for students and researchers. The Department of Aeronautical Engineering organized a three-day workshop on "Aerospace and Defense". A talk on "Importance of Research and its way forward" was organized by the MITE Research Council on 26th July 2019 for the Faculty of MITE to encourage research activities. A technical talk on "Review on Chandrayan mission" was also organized by the Department of Aeronautical Engineering as part of research promotion activity.

Two research proposals were submitted to AICTE and TEQIP Cell of VTU Belagavi for financial grants. Project titled "Fabrication of Graphene/bio-waste based hybrid system as flexible and high-performance supercapacitors" submitted by Dr. Raghavendra Sagar from the Dept. of Physics received a competitive research grant sponsored by TEQIP Cell, VTU Belagavi. The Dept of Physics also received Rs. 20 lakhs, as part of 3rd installment, under the VGST CESEM scheme. Rajalaxmi Education Trust, Mangalore provided Rs. 2.00 Lakh to engineering department research centers and Rs. 1.00 Lakh to Basic Science research centers as internal research grant to upgrade the research infrastructure of their respective research centers.

3. Research Progress Review

Table 1: Details of the Research Scholars Registered for Ph.D. Degree during the year 2019.

Sr. No	Name	Name of Research center	USN No	Guide Name
1	Samatha	Physics	4MT19PPY01	Dr. Raghavendra Sagar
2	Aveen KP	ME	4MT19PME04	Dr. Neelakantha V L
3	Rahul S	ME	4MT19PME02	Dr. Lokesh M
4	Navyashree B S	CV	4MT19PCV02	Dr. Ganesh Mogaveer
5	Yashwanth M K	CV	4MT19PCV02	Dr. GL Easwara Prasad
6	Sudheer Kumar B N	ME	4MT19PME01	Dr. G. Purushotham
7	Shamitha	Mathematics	4MT19MA01	Dr. Asha Crasta
8	Anitha D Bayar	Mathematics	4MT19MA012	Dr. Asha Crasta
9	Girish L V	ME	4MT19PME03	Dr. T K Chandrashekar

Table 2: The details of research centers, researchers and the progress made during the year 2019.

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	15
3	No. of PhD Scholars registered in MITE research centers	43
4	No. of Faculty pursuing PhD from other research centers/university	18
5	No. of Ongoing Funded Projects in MITE	04
6	No. of Projects Accepted of Funding	01

Table 3: 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	1	1	-
Computer Science and Engineering	1	2	3	-
Electronics and Communication Engineering	2	1	-	-
Mechanical Engineering	7	5	8	-
Mathematics	4	-	2	-
Chemistry	-	-	2	-
Physics	1	1	3	-

4. Publication Details

Table 4: Department-wise journal publications for the year 2019 are given in below table.

Sl. No	Department	No of publications	Scopus indexed	Other
1	Aeronautical Engg.	1	-	1
2	Civil Engg.	6	2	4
3	Computer Sci. and Engg.	5	5	-
4	Electronics and Comm. Engg	13	2	11
5	Information Science	2	2	-
6	Mechanical Engg.	8	6	2
7	Mechatronics	3	1	2
8	Mathematics	6	6	-
9	Chemistry	3	3	-
10	Physics	4	4	-
11	MBA	3	1	2
	Total	54	32	22

Table 5: The details of department-wise conference proceeding details.

Sl. No	Department	No of publications	No of Book Chapters
1	Aeronautical Engg.	-	1
2	Civil Engg.	1	-
3	Computer Sci. and Engg.	1	-
4	Information Science	1	-
5	Mechanical Engg.	3	-
	Total	6	1

5. Research Promotion Activities

1. **Title** : Workshop on Aerospace and Defense
- Date** : 11th to 13th April 2019
- Resource Person** : Dr. K Badri Narayana, Former Scientist (ISRO)
Mr. Nicky Harris, COE, Aerospace & Defense



2. **Title** : **A technical talk on Failure Analysis**
- Date** : **7th July 2019**
- Resource Person** : **Dr. Sudhakar K V, Montana Technological University, Butte, Montana, USA**



3. **Title** : **A talk on the Importance of Research and its way forward**
- Date** : **26th July 2019**
- Resource Person:** **Dr. Mohammed Zuber, Associate Professor, MIT, Manipal**

4. **Title** : A talk on Review on Chandrayan mission
- Date** : 28th September 2019
- Resource Person** : Prof. E. Janardhan Rao, Retd. ISRO Scientist



6. Funded Projects Details

Table 7: Status of the funded projects during the year 2019.

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	Ongoing	60.00
2	Fabrication of Graphene/bio-waste based hybrid system as flexible and high performance supercapacitors	Dr. Raghavendra Sagar	TEQIP Cell, VTU Belagavi	Accepted for grants	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

7. Institution Grants for Research

Table 8: Details of funds allocated from the Institution towards the improvement of research infrastructure and conference attending fees.

Sr. No	Department	Funds allotted (Rs)	
		Research Infrastructure	Conference fess & expenses
1	Civil Engineering	2,00,000	50,000
2	Computer Science and Engineering	2,00,000	-
3	Electronics & Communication	2,00,000	-
4	Mechanical Engineering	2,00,000	-
5	Mathematics	1,00,000	-
6	Chemistry	1,00,000	-
7	Physics	1,00,000	-

=====&&=====