



# Mangalore Institute of Technology and Engineering

(An ISO 9001:2015 Certified Institution)

(A Unit of Rajalaxmi Education Trust)

Badaga Mijar, Moodabidri-574225

## RESEARCH COUNCIL

### ANNUAL REPORT - 2018

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## 1. Research Council for the Year 2018

Sr. No	Role	Name and Designation
1	<b>Chairperson</b>	Dr. G L Easwara Prasad, Principal
2	<b>Members</b>	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, Sr. Assistant Professor, Dept. of Physics
9		Prof. Manjunath H, Associate Professor & Head, Dept. of ISE
10		Prof. Krishna Shastri, Associate Professor, Dept. of ECE
11		Dr. Neelkantha V. Londe, Dept. of Mechanical Engg
12	<b>Convener</b>	Dr. Ganesh Aithal, Dean Research



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## 2. Overview

The year 2018 set a milestone in the research activities of Mangalore Institute of Technology & Engineering (MITE) and produced momentous output. The inclusion of one more faculty by VTU, Belagavi to guide PhD Scholars increased the number of recognized guides to 11 in MITE research centers.

During the year 2018, 2 research scholars registered for the PhD in MITE research centers and Anthoni Praveen Menezes from the Department of Physics was awarded PhD from VTU, Belagavi for his thesis entitled "Growth and Characterization of  $\pi$ -conjugated novel organic nonlinear optical materials".

Department of Mechanical Engineering organized "International Conference on Advanced Manufacturing, Materials and energy engineering" (ICON MMEE 2018) jointly patronized by Mangalore Institute of Technology & Engineering and Binghamton University, New York, USA. IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER2018) was organized in association with IEEE, Bangalore Chapter and Binghamton University, USA.

In the year 2018, faculty of MITE published 57 full-length papers and 48 conference proceedings in Scopus and other indexed National/International journals and conference proceedings.

The midterm review of project entitled "Study on enhancement of efficiency of solar cell by various modification process and synthesis/characterization of NLO materials" was conducted by VGST. Dr. Raghavendra Sagar attended the review meeting held in JNCASR, Bangalore. The project entitled "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" was approved for the grant of Rs. 42 Lakhs by Karnataka Council for Technological Upgradation.

### 3. Research Progress Details

**Table 1:** The details of research centers, researchers and the progress made during the year 2018.

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	11
4	No. of PhD Scholars registered in MITE research centers	33
5	No. of PhD's awarded	01
6	No. of Faculty pursuing PhD from other research centers/university	07
7	No. of Ongoing Funded Projects in MITE	04

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

Research Center	Coursework in progress	Course work completed	Comprehensive viva completed
Civil Engineering	1	1	-
Computer Science and Engineering	3	3	-
Mechanical Engineering	6	5	2
Electronics and Communication Engineering	3	-	-
Mathematics	2	-	-
Chemistry	2	-	-
Physics	1	1	1

**Table 3:** Details of the Research Scholars Registered for Ph.D. Degree during the year 2018.

Sr. No	Name	Name of Research center	USN No	Guide Name
1	Vidya Shree M	CV	4MT18PCV01	Dr.Ganesh Mogaveer
2	Roopashree	EC	4MT18PEC01	Dr. Malini Suverna

## 4. Publication Details

**Table 4:** Details of department-wise publications during the year 2018.

Sl. No	Department	No of publications	Scopus indexed	Other
1	Aeronautical Engg.	7	4	3
2	Civil Engg.	10	3	7
3	Computer Sci. and Engg.	1	-	1
4	Information Science	1	-	1
5	Electronics and Comm. Engg	9	1	8
6	Mechanical Engg.	13	6	7
7	Mechatronics	3	-	3
8	Mathematics	6	2	4
9	Chemistry	6	2	4
10	Physics	1	1	-
	<b>Total</b>	<b>57</b>	<b>19</b>	<b>38</b>



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**Table 5:** The details of department-wise conference proceedings for the Year -2018.

Sl. No	Department	No of publications
1	Aeronautical Engg.	08
2	Civil Engg.	03
2	Electronics and Comm. Engg	02
3	Mechanical Engg.	30
4	Computer Science and Engineering	05
	<b>Total</b>	<b>48</b>

## 5. Research Promotion Activities

- 1. Title** : International Conference on Advances in Manufacturing, Materials and Energy Engineering (ICon MMEE 2018)
- Date** : 2<sup>nd</sup> and 3<sup>rd</sup> March 2018
- Keynote Speaker** : Dr Krishnaswami 'Hari' Shrihari, Dean and Professor, Binghamton University, USA
- Session Speaker** : Dr K P Ramachandran, Associate Dean, Caledonian College of Engineering, Muscat, Sultanate of Oman
- Dr Paul R Chiarot, Associate Professor, Binghamton University, State University of New York,
- Dr. Mohammad T Khasawneh, Professor and Chair, Systems Science & Industrial Engineering, State University of New York at Binghamton
- Dr Shuichi Torii, Professor, Kumamoto University, Japan.
- No. of Papers Received** : 138



**Link** : <https://iopscience.iop.org/article/10.1088/1757-899X/376/1/011001>

- 2. Title :** International Conference on Distributed Computing, VLSI, Electrical circuits and Robotics 'DISCOVER'
- Date :** 13<sup>th</sup> and 14<sup>th</sup> August 2018
- Keynote Speakers :** Dr. Tuluka Mitra, Professor, School of Computing, National University of Singapore and Prof. Alok Rastogi, Binghamton University, USA
- No. of Papers received :** 130
- No of Papers presented:** 50



**Link :** <https://ieeexplore.ieee.org/xpl/conhome/8671675/proceeding>

<https://ewh.ieee.org/soc/ras/conf/technicallycosponsored/discover/2018/2018.ieee-discover.org/index.html>



## 6. Funded Projects Details

**Table 6:** Accepted and ongoing funded projects during the year 2018.

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	Technology-based agriculture sensors	Dr. Venkataramana Bhat P	Vision group of Science and Technology (VGST), Govt. of Karnataka	Ongoing	40.00
3	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
4	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	Accepted for grants	42.00

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