



MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(An ISO 9001:2015 Certified Institution, Accredited by NAAC)

(A Unit of Rajalaxmi Education Trust®, Mangalore)

INTERNAL QUALITY ASSURANCE CELL

REPORT FOR THE ACADEMIC YEAR 2020-21



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INTERNAL QUALITY ASSURANCE CELL (IQAC)
FOR THE ACADEMIC YEAR 2020 - 2021

The composition of the IQAC for the academic year 2020-2021 is as follows:

S. No.	Committee members	Representation	Designation
1	Dr. G L Easwara Prasad	Head of the Institution	Chairperson
2	Sri. Rajesh Chouta	Management Representative	Member
3	Sri. P R Shetty	Local Society	Member
4	Dr. Ganesh Mogaveera	Professor	Member
5	Dr. Jyothi S	Associate Professor	Member
6	Mr. Shivaramu H T	Senior Assistant Professor	Member
7	Mr. Glenson Toney	Assistant Professor	Member
8	Mr. Prakash Devadiga	Administrative Officer	Member
9	Ms. Chaitra Taranath	Student	Member
10	Mr. Prajwal Hegde,	Alumnus	Member
11	Mr. Mohammed Azaan Patni	Employer	Member
12	Mr. Donson D'sousa	Industrialist	Member
13	Mr. Shivayya	Parent	Member
14	Dr. Divakara Shetty S	Professor	Convener

INTERNAL QUALITY ASSURANCE CELL

Report for the Academic Year 2020 - 2021

As per the guidelines of NAAC, MITE has constituted the IQAC to initiate, guide and supervise the various activities that are conducted by the departments to enhance the quality of education imparted to the students, creation of students–centric academic and intellectual environment conducive to quality education and faculty maturation to acquire required knowledge and skills for participative teaching and learning process. IQAC at MITE works towards attaining excellence in all the academic activities, the successful implementation of quality initiatives for up gradation of quality and for providing quality education to the students of diverse backgrounds.

At MITE, the departments have been working in accordance with the vision and the objectives of IQAC, and conducted a total of 107 activities in the academic year 2020-21. Some of the key activities organized by the departments under the guidance of IQAC are:

1. 5 Day Faculty Development Program (FDP) on “**Environmental and Geo-Technology**” was organized by the department of Civil Engineering. The department also organized National level 5 Day FDP on “**Design and Construction Practices of Bridges**”.
2. The Department of Aeronautical Engineering organized a talk on “**Need for Multidisciplinary and Interdisciplinary Approach to Current and Future Engineering and Technology Programs**”.
3. 5 Day FDP on “**Emerging Trends in Sustainable Technologies**” sponsored by **ATAL-AICTE, New Delhi**, organized by the department of Mechanical Engineering. The department also organized 5 Day FDP’s on “**Sustainable Energy Solution in Solar Energy Applications**” sponsored by **AQIS - AICTE, New Delhi** and on “**Sustainable Solutions in Hybrid Vehicles**” sponsored by **AQIS-AICTE, New Delhi**.
4. A webinar on “**Big Data Analytics & Mobile Applications**” was conducted by the department of Computer Science & Engineering.
5. The department of Electronics & Communication Engineering conducted webinar on “**Wavelet Analysis for Signal Processing**”. The department also organized a talk on “**Application of Linear Algebra in Electronics and Communication**”.
6. The department of Mechatronics Engineering, organized 4 Day FDP on “**ABB IRB1520ID Industrial Robot and ABB Robot Studio Simulation Software**”.



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7. A talk on “**Cyber Security Trends and Measures,**” was organized by the department of Information Science & Engineering.
8. The department of Business Administration organized webinars on “**A Practical Approach to Sales Process**” and “**Technology Product Overview**”.

Large number of quality related activities conducted by the departments under the guidance of IQAC in the academic year 2020-21, clearly demonstrated that the IQAC at MITE has created a **Quality Culture** in the institute which energized and inspired the faculty members and the students to actively participate in Teaching - Learning Process. The IQAC at MITE also involved in guiding, supporting and directing the departments to involve the faculty and students in Innovative Projects, Extension Activities, Research & Development, Conferences, Workshops, and Seminars, for upgrading their technical knowledge and problem solving skills.

In the academic year 2020-21, the IQAC has conducted Three Meetings.

1. The First Meeting was held on 05/08/2020.
2. The Second Meeting was held on 03/04/2021.
3. The Third Meeting was held on 30/07/2021.

Proceedings of IQAC meeting held on 05/08/2020

The chairperson Dr. G L Easwara Prasad extended welcome to all members to the meeting. Informed the members about the reconstitution of IQAC and also briefed about the functions and responsibilities of the Committee. He also introduced the new members to the committee.

1. Global Conference (GCASSTE-2020) -- Closing of Account

The chairperson Dr. G L Easwara Prasad briefed about the successful conduction of Global Conference on "**Advanced Smart and Sustainable Technologies in Engineering**" on 30th & 31st January 2020 jointly organised by the Department of Electronics & Communication Engineering, Civil Engineering and Mechanical Engineering, which was sponsored by AICTE, New Delhi. He also briefed that a total of 149 papers were presented from various countries of the world in the conference.

2. Successful completion of the Online Local Inquiry Committee Visit

The chairperson congratulated all the departments for extending their whole hearted support in the preparation of academic documents that are required for online LIC visit. The Committee members appreciated the support rendered by the institution to the students during the ongoing pandemic COVID-19. The committee also appreciated the management support given to the staff members during this pandemic.

3. NBA Extension for Computer Science & Engineering & Mechanical Engineering Department for 3 Academic years

The chairperson and the committee members appreciated the efforts of Department of Computer Science & Engineering and Mechanical Engineering in successful completion of NBA reaccreditation process and congratulated them for obtaining extension of accreditation for three more years from 2020-21 till 2022-23.

4. The Online review process of KSCST projects approved for 2019-20.

The Chairperson briefed about the internal online review of all the KSCST projects sanctioned for the AY 2019-20 as the offline review process cannot be conducted due to the current pandemic situation.

5. Online Teaching and Counselling for the students during COVID-19

The committee appreciated the efforts made by all the departments in conducting online classes to complete the syllabus and counselling the students during the pandemic COVID-19.

6. Review of Online Project Exhibition for Final year Students.

The chairperson briefed about the online Project Exhibition INNOVATION 2020 for the final year students which was conducted on 10th & 13th July 2020.

7. Review of Induction Program Report.

The committee reviewed the report of Induction Program for the AY 2019-20. The chairperson updated the activities and sessions conducted during the Induction program which serves as a strong foundation for the first-year students for beginning their four years long journey of Engineering Education.

8. Online Skill Development Programs for Students of all Departments.

The Committee reviewed the Skill Development Activities for the students conducted through both offline & online mode by each department the academic year and the committee appreciated all the departments for conducting webinars during the pandemic.

9. Internal Academic Audit

The Committee reviewed the report of the internal academic audit submitted by internal auditors.

Proceedings of IQAC meeting held on 03/04/2021

The chairperson, Dr. G L Easwara Prasad extended welcome to all members to the meeting and the convener, Dr. Divakara Shetty presented the agenda for discussions.

1. Reconstitution of IQAC

The convener Dr. Divakara Shetty informed the members about the reconstitution of IQAC. He introduced the new members Mr. Shivaramu H T, Senior Assistant Professor, Department of Mechanical Engineering and Mr. Glenson Toney, Assistant Professor, Department of Mechatronics Engineering to the committee and also briefed about the functions and responsibilities of the Committee.

2. Review of quality initiatives undertaken in the odd semester of 2020-21

The quality initiatives implemented were presented by Dr. Divakara Shetty and the committee appreciated the activities undertaken.

3. Academic Calendar for the 2020-21 even semester

The Vice-Principal, Dr. C R Rajashekar presented the Calendar of Events (COE) for the Even Semester 2020-21 in line with the CoE from VTU, Belagavi. The committee approved the CoE and urged the departments to create the department level CoE and plan of action for the even semester.

4. Review of the Internal Quality Audit report

The Committee reviewed the report of the internal academic audit submitted by internal auditors.

5. Conduction of classes, student mentoring and counseling in the even semester

The committee instructed the departments to conduct the subject expert review for courses to be delivered in the even semester with panel members from reputed universities. The department was also informed to prepare the timetable for the even semester in accordance with the university guidelines. The Chairperson stressed on the need for conducting effective counseling to students throughout the semester and proper documentation of the counseling held.

6. Preparations for reassessment from NAAC & NBA accreditation for the Department of Mechatronics Engineering and Information Science & Engineering

Sri. Rajesh Chouta, Chairman of Rajalaxmi Education Trust informed the committee about the plan for the institution to undergo reassessment from NAAC. The Committee discussed

and approved it and appointed Dr. Divakara Shetty, Dr. C R Rajashekar, Prof. Jayadeva Prasad, Dr. Vinayambika Bhat and Prof. Narendra U P as the core committee members to review the process of reassessment. The core committee was informed to form criterion-wise in charges and ensure that the entire process is well planned and executed.

The Chairperson informed Dr. Lokesha M, Head, department of Mechatronics Engineering and Prof. Manjunath H, Head, department of Information Science & Engineering to initiate the process for accreditation from NBA. Dr. P Venkataramana Bhat, Institute NBA Coordinator to guide the departments in the process.

7. Review of the Research, Publications, grants and sponsored research

The committee reviewed the research publications of the faculty members and the grants received from various agencies. While the committee appreciated the efforts of faculty towards quality publication, it opined that efforts have to be made to improve the quality and orient faculty members towards research. It also informed the research committee to encourage faculty to pursue research. The committee also directed the departments to apply for grants from various agencies on a regular basis.

8. Review of the awards, achievements of the students/ institution

Dr. G L Easwara Prasad, Chairperson presented the achievements of the institution in the academic year 2019-20. The committee congratulated and expressed appreciation for the various awards and accolades that the institution received.

- **MITE registers 6 University Ranks in B.E 2020 Examination**

Mr. Mubashir P of Mechatronics Engineering secured First Rank in Mechatronics Engineering & bagged a Gold medal, Sanketh S Raj Jain secured the 2nd Rank in Mechatronics Engineering, Sequeira Clavin Wilton Mathew secured the 4th Rank in Aeronautical Engineering and Ganesh Kumar secured the 6th Rank in Mechatronics Engineering. Rashmi secured the 8th Rank in Information Science & Engineering, and Kenny Vishal secured the 9th Rank in Mechanical Engineering.

- MITE is awarded as the '**Best Performing College of the Year 2020**' by **Karnataka State council for Science & Technology (KSCST)** at the 43rd series of Student Project Programme (2019-20) for the performance at the Student Projects Competition. Four of the Student Projects of the Departments of Computer Science & Engineering, Electronics & Communication Engineering, Mechanical Engineering, and Aeronautical Engineering, were adjudged as the '**Best Projects of the Year**' in the state. MITE has been winning best project of the year successively with Two in 2019 and One in 2018.

- MITE secures First Prize in VTU TEQIP State Level Project Competition – **Avishkar 2020** with a cash prize of INR. 25000 for the project ‘Medical Emergency Drone’, developed by the interdisciplinary team from Mechanical Engineering, Information Science & Engineering, and Electronics & Communication Engineering Department. The award was conferred by Dr. C. N. Ashwath Narayan, Honorable Deputy Chief Minister and Minister of Higher Education, Govt. of Karnataka.
- **MITE student Mr. Dacklen D’Souza is the global winner of 10th Kake International Japanese Online Speech Contest.** The international event had participants from the United States, South Korea, Vietnam, China, Pakistan, Bangladesh and Sri Lanka.
- Student Team from Mechatronics Engineering won 4th Place at the **Anveshana-2021**, State Level Project Championship. A team from Mechanical Engineering and another from Mechatronics Engineering also won the Consolation Prize.

9. Industry linkages established

Chairperson, Dr. G L Easwara Prasad also presented the industry linkages that the institution established in 2020.

- **MoU with Numentrix Consulting LLP** to share academic and scientific experiences among faculty students and industry professionals through short term courses, workshops, interactions and industrial visits.
- **MoU with diagnostic Engineers Bangalore** to facilitate the exchange of knowledge and resources for mutual benefit in the field of vibration data collection and data interpretation.

The Chairperson informed the departments to conduct activities through these industry linkages to bridge the gap between academia and industry.

10. Strengthening Alumni-Institute interactions

The Convener urged the departments to strengthen the alumni-institute interactions by conducting technical talks/ career guidance sessions through alumni to prepare students for a successful career in the industry or to pursue higher education.

The convener thanked the members for their support in improving the quality of education at MITE and for participating in the meeting.

Proceedings of IQAC meeting held on 30/07/2021

The chairperson, Dr. G.L. Easwara Prasad welcomed the members present in the meeting and briefed the importance of having IQAC at the Institute level for continual improvement in the Teaching-Learning Process and to achieve Academic Excellence. Dr. Divakara Shetty S, Convener of IQAC has presented the agenda for the discussion.

1. Review of Quality Initiatives undertaken by the Departments.

The chairperson presented the list of quality initiatives undertaken by the departments. The committee appreciated the efforts made by the departments. Sri. Rajesh Chouta, Management Representative stressed the importance of conducting more number of professional development activities for teaching and technical staff to make the Teaching & Learning Process more interesting and innovative. He also appreciated the efforts made by the departments in R&D activities and the journal publications made out of it.

2. Review of the documents prepared for reassessment from NAAC

The chairperson briefed the importance of having NAAC Accreditation with higher grades for the holistic development of the institute. Dr. Divakara Shetty S. Coordinator for NAAC Reassessment briefed the progress made in the preparation of the documents that are required to submit the Self Study Report (SSR) for reassessment from NAAC. The committee appreciated the progress made in this direction and wished the institute to get “A+” Grade in the Reassessment from the NAAC.

3. Review of preparations for NBA Accreditation for the Department of Electronics & Communication Engineering,

Dr. Vinayambika S. Bhat, Head of the Department of Electronics & Communication Engineering briefed the progress made in the preparation of documents required for 2020-2021 which is to be submitted and presented during the visit of the Expert Team from NBA. Sri. Rajesh Chouta, Management Representative informed the Head Electronics & Communication Engineering to guide and train different criterion heads to present their documents in the best possible manner to the Expert Team members of the NBA.

4. Restructuring of the formats for Program Assessment Committee (PAC), Department Advisory Board (DAB) Meetings and Invitation to External Members.

The common formats prepared by the IQAC for PAC, DAB meetings and invitation to External Members for DAB Meeting was presented by the Chairperson and informed the Convener to circulate the same to all the departments to maintain the uniformity in the Academic Activities.

5. Appreciation for the Institute being placed in the Platinum Category in the AICTE-CII Survey of Industry linked Technical Institutes 2020.

The Chairperson briefed the efforts made by the institute in industry linkage for developing skills and knowledge of the students, to bridge the gaps in the curriculum and to make them industry ready. The committee appreciated and congratulated the MITE family for achieving this historic milestone.

6. Result Analysis of VIII Semester 2020-21.

The Chairperson presented the Results Analysis of 8th Semester 2020-21 of all the branches of engineering. The committee appreciated the efforts made by the institute for getting more than 95 % average results in the final semester engineering. The committee also appreciated and congratulated the Department of Mechatronics Engineering and the Department of Information Science & Engineering for getting 100% results in the 8th Semester.

7. Review of preparations made for Faculty Development Program (FDP) by the Department of Civil Engineering

Dr. Ganesha Mogaveera Head of the Department of Civil Engineering briefed the preparations made for the FDP on “Design and Construction Practices of Bridges” to be held on August 30th to September 3rd 2021. The Chairperson Informed to the Heads of the Departments to take initiative in organizing at least one FDP in a semester for updating the knowledge and skills of the faculty members for effective delivery of course contents.

The Convener thanked the members for their support in improving the quality of education at MITE and for participating in the meeting.