MOHANDAS COLLEGE
OF ENGINEERING AND TECHNOLOGY
(AN ISO CERTIFIED AND NAAC ACCREDITED INSTITUTION)

ANAD, NEDUMANGAD,THIRUVANANTHAPURAM - 695 541

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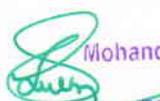E-mail : mail@mcetonline.com Web : www.mcetonline.com

NAAC PEER TEAM VISIT SCHEDULE

HEI : MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY, TRIVANDRUM, KERALA

DATES OF VISIT: 28/03/2023 (Tuesday) & 29/03/2023 (Wednesday)

DAY - 0 (27/03/2023)		
Peer Team Discussion (Pre-visit meeting at the place of stay) - 05.00 pm -07.00 pm		
DAY - 1 (28/03/2023)		
Welcoming and Receiving the NAAC Peer Team at 08:50 am		
Day 1	Presentation by the Principal	09:00 am - 09:45 am
Day 1	Meeting and Interaction with Heads of Departments	09:45 am - 10:30 am
Day 1	Visit to selected Departments - Meeting with HoDs and Teachers, Visit to concerned laboratories	10:30 am - 12:15 pm
Day 1	Visit to Central Computing Facility. IEDC & TBIC, NSS, Research Wing Activities. MoUs	12:15 pm - 01:00 pm
Day 1	**Lunch on meeting** (Meeting with the Governing Body/ Management)	01:00 pm - 02:00 pm

PRINCIPAL
Mohandas College of Engineering & Technology
Anad, Nedumangad
Thiruvananthapuram

Dr. S. SHEELA
PRINCIPAL
MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY

CHAIRMAN
NAAC PEER TEAM

MEMBER CO-ORDINATOR

MEMBER

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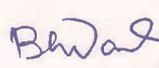E-mail : mail@mcetonline.com Web : www.mcetonline.com

Day 1	Visit to Library, Canteen, Boys Hostel, Sports facilities, Gymnasium, Girls Hostel	02:00 pm - 02:45 pm
Day 1	Visit to Career Guidance and Placement Cell, Anti Ragging Cell, Sexual Harassment Prevention Cell	02:45 pm - 03:30 pm
Day 1	Interaction with Student Council	03:30 pm - 03:40 pm
Day 1	Interaction with Students/Student Committees	03:40 pm - 03:50 pm
Day 1	Interaction with Alumni/Alumni Association	03:50 pm - 04:00 pm
Day 1	Interaction with Parents	04:00 pm - 04:15 pm
Day 1	Interaction with IQAC Co-ordinator & IQAC Members	04:15 pm - 04:45 pm
Day 1	Interaction with Administrative Officer, Finance Officer and non-teaching staff	04:45 pm – 05:15 pm
Day 1	Cultural Programmes by Students	05:15 pm - 06:00 pm
Day 1	Peer Team Discussion at the place of stay	07.00 pm - 08:30 pm

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DAY - 2 (29/03/2023)		
Day 2	Review of physical facilities such as safety and security, Counseling, Ramp/Rails, skill development centres etc., and review of alternative energy initiatives/solar power plant. rain water harvesting, waste management system	09:00 am– 09:15 am
Day 2	Meeting and Interaction with Head of various committees/cells	09:15 am - 09:25 am
Day 2	Review of best practices - Add on course and Finishing School	09:25 am– 09:35 am
Day 2	Review of Institutional Distinctiveness - Innovation Centre	09:35 am– 09:45 am
Day 2	Report writing	09:45 am - 12:15 pm
Day 2	Discussion with Principal and IQAC Co-ordinator on outstanding issues	12:15 pm - 01:00 pm
Day 2	Lunch	01:00 pm - 02:00 pm
Day 2	Report writing continues...	02:00 pm - 03:00 pm
Day 2	Sharing the Peer Team Report with the Principal	03:00 pm - 04:00 pm
Day 2	Finalizing the Peer Team Report	04:00 pm - 05:00 pm
Day 2	Exit Meeting	05:00 pm - 05:30 pm

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PRINCIPAL
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CHAIRMAN
NAAC PEER TEAM

MEMBER CO-ORDINATOR

MEMBER

INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 2)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY
C-43650

Thiruvananthapuram
Kerala
695541

Dr. S Sheela

PRINCIPAL
Mohandas College of Engineering & Technology
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Thiruvananthapuram- 695 544

(DR BIJOY KUMAR NANDA)

(Dr Ravendra Singh)

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Section I:GENERAL INFORMATION

1.Name & Address of the institution:	MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY Thiruvananthapuram Kerala 695541
2.Year of Establishment	2002
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	1
Departments/Centres:	8
Programmes/Course offered:	11
Permanent Faculty Members:	87
Permanent Support Staff:	112
Students:	761
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Innovation Centre 2. Good Infrastructure with green campus 3. Finishing School
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 28-03-2023 Visit Date To : 29-03-2023
6.Composition of Peer Team which undertook the on site visit:	

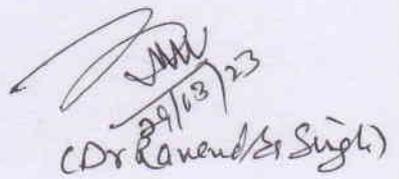|	Name	Designation & Organisation Name
Chairperson	DR. BIJOY KUMAR NANDA	FormerVice Chancellor,VSSUT BURLA
Member Co-ordinator:	DR. RAVENDRA SINGH	Professor,MJP Rohilkhand University Bareilly
Member:	DR. SHANKARGOUDA PATIL	Professor,Rani Channamma University
NAAC Co - ordinator:	Dr. Darikhan Kamble	

Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrices of the key Indicator under the respective criterion(This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QlM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QlM	**The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QlM	**Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**
1.4	Feedback System

Qualitative analysis of Criterion 1

The college follows the curriculum of the affiliated university, i.e., APJ Abdul Kalam Technological University, Kerala. The university requests the teachers of affiliated colleges for feedback on the existing courses, need for revision and introduction of new courses. The college has devised various strategies like allocating subjects based on faculty preference, delivery of course as per lesson plan & its monitoring by the HODs, student's feedback, mentoring systems, etc. to ensure outcome-based learning and strengthening teaching learning process. Add-on courses and invited talks are also arranged for the students. Bridge courses are organized for the students to get a clear understanding of the subjects. The academic calendar, semester plan and time table are circulated and course plans are prepared.

The college ensures that equal opportunity is given to both genders in terms of admissions, representations in student's union, course & class committees as well as celebrates Women's Day. Nature club of the college functions with an objective of making the campus green and eco-friendly. Rain water harvesting and roof-top solar panels are available. Curriculum also covers many core courses on sustainable development. The college organizes charity visit to make students aware of social responsibilities. The college also conducts anti-drug campaign, distributes books & school bags in nearby government schools on Praveshanolsavam Day. The college adopted Anad Panchayat and its NSS unit organizes awareness programs on energy conservation & energy auditing.

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(Dr S C Patil)

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Student Teacher Ratio
2.3	Teaching- Learning Process
2.3.1 QlM	**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools**
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QlM	**Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient**
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	**Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated**
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

The college has adopted Outcome Based Education through experimental learning, participative learning and problem-solving methods for enhancing the learning experiences of the students. Few students are engaged in real time societal projects funded by the college and other organizations. Talks by industry & academic experts, hand on training on new software and interactive sessions with alumni are arranged for students to update their knowledge and bridge the gap between industry and academia. Technical fest Colloquium and industrial visits are organized for technical exposure & industrial interaction. However very few teachers use ICT enabled tools for effective teaching-learning process to help students work collaboratively and develop high-order thinking skills.
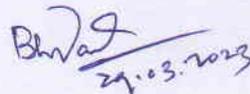
Two internal tests are conducted in each semester as per mandatory requirement of the university and the marks are entered in the web portal of the university. Performance of the students is evaluated continuously. Question papers are set based on course outcomes. Both the class and course committees discuss syllabus coverage, difficulty in understanding and other related activities and take suitable measures for strengthening. The grievances of the students on internal assessment are resolved by the concerned Teacher/HOD/Grievance Redressal Committee of the institute. Students apply for revaluation in case of any grievance on the university examination marks.

The Programme Outcomes (POs) are defined by the university. The Programme Specific Outcomes (PSOs) are framed by the concerned departments through Academic Committees. The Course Outcomes (COs) are defined in the syllabus of each subject. Programme outcomes and programme specific outcomes are communicated to the teachers, students and other stakeholders. The college evaluates its POs and PSOs by direct and indirect assessment methods. Direct assessment methods include internal examinations and assignments. Indirect assessment includes exit surveys from the pass out students, co-curricular activities of the students, feedback obtained from the workshops & seminars and alumni survey.

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Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Innovation Ecosystem
3.2.1 QlM	**Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge**
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QlM	**Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.**
3.4.2 QlM	**Awards and recognitions received for extension activities from government / government recognised bodies**
3.5	Collaboration

Qualitative analysis of Criterion 3

The college has created an environment for innovations and transfer of knowledge through its Innovation & Entrepreneurship Development Centre (IEDC) and Research Wing, but it has to be strengthened. IEDC moulds the students towards entrepreneurship through workshops, training programs and boot camps. Institution Innovation Cell (IIC) provides Start-up Ecosystem for students, however it has to be strengthened. Women Empowerment through Entrepreneurship Development (WEED) is functioning with the financial support from Kerala Start-up Mission, Government of Kerala. Research Wing of the college coordinates funding of student projects from institute and external agency.

Extension activities such as blood donation camp, importance of polio vaccination & healthy diet, measures to stop tuberculosis, to keep liver healthy & prevent COVID 19, essay competition, challenges faced by women, planting of trees, voter awareness campaign and distribution of masks are organized by the NSS unit of the college in the neighbourhood villages. Few programmes are organized every year in and around Anad Panchayath. Further, online and offline Entrance Examination Coaching are provided to the nearby school students.

IEDC received top performer appreciation award and second runners up in Thiruvananthapuram district. It is selected as one of the mentor mentee institutes by the MoE Innovation Cell, Government of India in the year in 2021-2022. NSS unit received best performer award from APJ Abdul Kalam Technological University in the year 2020-2021. One Professor has received Madhava Ganitha Puraskar in the year 2020.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QlM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QlM	**Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution**
4.2	Library as a Learning Resource
4.2.1 QlM	**Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library**
4.3	IT Infrastructure
4.3.1 QlM	**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection**
4.4	Maintenance of Campus Infrastructure

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Qualitative analysis of Criterion 4

Each department of the college has separate seminar halls for UG & PG courses. There is a fully equipped air-conditioned seminar hall in the main block and a mini auditorium in the Civil block. Central Computer and Internet Facility cater the computing requirements of the institution. The internet centre is connected with leased line from BSNL and Asianet which requires future improvements. Outdoor sports facilities like volleyball, basketball, football, cricket, shuttle badminton, indoor facilities such as table tennis, chess, carrom as well as gymnasium for boys and girls and ambulance services are available.

The library facility consists of information desk, circulation section, reference section, periodical section, stack area, bound volume section, e-learning centre, humanities & social science section and reprographic centre. The library is fully automated and the collection is accessible online through the Online Public Access Catalogue (OPAC). The library collection includes approximately good number of volumes and titles of books, magazines, technical journals, newspapers, CD/DVDs and adequate e-journals.

The college has computer labs in each department with good number of systems connected by LAN with layer 2 & 3 switches. There are servers and Wi-Fi access points in the institute. Lab in-charge takes care of maintenance and upgradation of laboratory from time to time as per course requirement. Physical verification and Preventive maintenance as well as performance monitoring are carried out. All departments in the institute have PCs, software, and peripherals. The laboratory technicians and system administrator maintain the IT facilities. LCD projectors, EPBX system and air conditioners are maintained by external agencies. The college has installed CCTVs at strategic locations to ensure effective security.
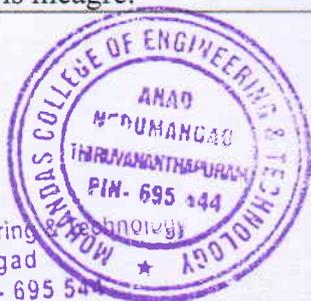
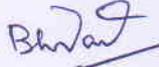| Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.4	Alumni Engagement
5.4.1 QlM	**There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services**

Qualitative analysis of Criterion 5

The registered alumni association was formed in the year 2006, but shall to be renewed time to time. The Director/Principal is the chairman of the alumni association and the activities of the association is managed by an executive committee consisting of faculty and student members. The college organizes the event 'PRAYAN' in the month of June/July to enrol the final year students as life members of the association. Annual General Body meeting is usually held in December close to X-mass to enable the alumni to attend the function. It also provides awards to students who excel in academics. Some Memorial/Endowment awards constituted by well wishers which are conferred on Alumni Day. However, the financial contribution of the alumni in the last five years is meagre.

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Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)		
6.1	Institutional Vision and Leadership	
6.1.1 QlM	**The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance**	
6.2	Strategy Development and Deployment	
6.2.1 QlM	**The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc**	
6.3	Faculty Empowerment Strategies	
6.3.1 QlM	**The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff**	
6.4	Financial Management and Resource Mobilization	
6.4.1 QlM	**Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)**	
6.5	Internal Quality Assurance System	
6.5.1 QlM	**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities**	

Qualitative analysis of Criterion 6

The college plans its activities to achieve stated vision and mission. Operational autonomy in academic and administration is delegated to the HODs. Planning, scheduling, requirement analysis and budgeting are done at the department levels following a participatory decision-making process. The college council prepares a calendar in accordance with the university calendar which contains day to day activities in details. HOD allocates the courses to each faculty based on their performance and experience. For effective implementation of policies and plans, the college emphasizes on the reviews of the various committees constituted for different activities.

The Governing Body assists the Chairman regarding broad guidelines, policies and framework for improvement of the college. The Director and Principal are the executives. The college management council consisting of all HODs and some functional heads help in all administrative and academic matters including discipline, police planning and implementations. An elected student council with two faculty advisors is in place. Career Guidance and Placement Cell, Physical Education, IEDC, NSS, Centre for Continuing Education, etc. also plan and carry out various programmes in the college. A strategic plan has been devised with short-, medium- and long-term goals.

The faculties and staff are provided with mandatory facilities by the college as per their norms. TA/DA and FDP registration fees for conferences & training are also provided. The staff appraisal includes faculty, technical and office staff. Students evaluate the faculty on various parameters. Faculty appraisal emphasizes on student feedback, university examination result, commitment, and achievement of the faculty members. A similar feedback system for lab & non-teaching staff is also available.

The major source of income is the fees collected from the students. The college receives funds for IEDC cell

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from AICTE-Ministry of Education, Startup mission for organizing various programmes. It also receives fund from NSS technical cell, Govt of Kerala. Fund deficit if arises is managed through bank loan and contributions from the trust. The college does not maintain any reserve/corpus fund. The internal and external audits are done by the college team and a registered Chartered Accountant annually respectively. The audited statement is submitted to AICTE every year as a mandatory requirement.

The IQAC team plays a role in the quality initiatives of teaching, learning and evaluation. This cell develops the quality bench marks/parameters for various academic activities, creates learner concentric environment for quality education, arranges feedback from students, parents and other stake holders. Department level quality assurance (DQAC) is also formed to ensure quality in teaching learning processes. The continuous evaluation system needs improvement.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QlM	**Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years**
7.1.4 QlM	**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)**
7.2	Best Practices
7.2.1 QlM	**Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual**
7.3	Institutional Distinctiveness
7.3.1 QlM	**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

Qualitative analysis of Criterion 7
The college has an Equal Opportunity Cell for identifying transgender students and help them to adapt to the environment of the institute. The female population enjoys all the privileges available to male. Safety is ensured to all with the availability of security guards and CCTV cameras. Internal Complaint Committee exclusively for women, Women's Grievance Redressal Committee and Entrepreneurship Cell for Women are available in the college. Various awareness programmes are organized under the Women's Cell of the college. Women Empowerment through Entrepreneurship Development (WEED) spreads awareness about gender equity in entrepreneurship and organizes programs on Women Summit. IEEE Women in engineering is an active society in the campus.
The college organizes several programmes to build an environment for ethical and cultural values among the students and staff. Student and staff celebrate festivals like Onam, Christmas, Teacher's Day, Women's Day, Yoga Day, National Education Day. Students are given opportunities to interact with the local people and makes them aware of energy saving and electricity bill reading.
The college follows two best practices such as Add-On Course and Finishing School. The objective of first one is to help the students in updating their knowledge and improve competency. This enables them to appear competitive examinations for higher education and to solve practical problems effectively. The objective of

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second one is to impart training such as communication skills, group discussion, extempore, aptitude test, resume preparation, soft skill training, etc. to the final year students for campus placement. Finishing school is conducted as a residential program of one-week duration.

The college has the innovation centre which offers a platform for the students to enhance their creativity and artistic approach but needs strengthening. The Research Hub is established to bridge the gap between industry & institute and improve problem-solving skills as well as projects and research which needs to be more functional. Idea Café is a platform to brainstorm ideas and improve communication skill of the students. Intellectual Property Rights (IPR) Cell is available which needs to be more effective. Few startup companies have been incubated in the TBI of the college during the assessment period.

Section III:OVERALL ANALYSISbased on Institutional strengths.Weaknesses,Opportunities & Challenges(SWOC)(up to 500 words)

Overall Analysis

Strength:

- Innovation Centre recognised as a five-star rated IIC by MOE, Govt of India (2019-2020).
- Free Transportation to staff members.
- College IEDC identified as Institutional Mentor under Mentor-Mentee Scheme of AICTE.
- Conduct of ADD-ON courses based on Industry Demand to enhance finishing school activities.
- Accredited TBI by KSUM and IEDC.
- Presence of Vibrant NSS unit.
- Proactive management with broad vision.
- Good infrastructure with green campus.

Weaknesses:

- Located away from the city and inadequate public transport services.
- Around 10 percent of faculty members possess Ph D degrees.
- Poor Journal Publications.
- Welfare measures for faculty and staff insufficient.
- Regular upgradation of department labs and library is moderate.
- Most of the students admitted are with relatively low academic scores.
- A good number of approved seats remain vacant for most of the streams.
- Negligible number of students become entrepreneurs.
- Success rate of students in the university examinations is moderate.
- Placement of students in the core sectors are very few.
- R & D activities are less.
- Networking with other Institutions of Importance not available.
- Industrial consultancy is very less.
- Financial contribution of Alumni is negligible.

Opportunities:

- Availability of fund in research organizations, Government and Central Government bodies.
- Government policies encourage ICT implementation in institutions.
- Policies of government give priorities to societal needs.

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- Opportunities for student and faculty exchange programmes.
- Increased opportunities for employment in technology due to policies of State and Central government.
- Opportunities for getting sponsored research projects.
- Opportunities to offer electives and add-on courses in the emerging areas in collaboration with industries.
- Opportunities for student internship in all streams.
- Opportunities to invite senior professors/adjunct professor/distinguished professor in the specialized areas.
- Opportunities to establish Centre of Excellence for research, training, and development in collaboration with industries and research laboratories in the specialized areas.

Challenges:

- Difficulties in generating funds for research projects due to self-financing structure of the college.
- Presence of large number of self-financing institutions in the neighbouring areas.
- Declining demand for engineering education.
- Increasing attrition rate of teachers in self-financing engineering colleges.
- Declining interest in core branches like Civil, Mechanical & Electrical Engineering by students.
- To attract meritorious students.
- Mobilization of research resources for continuous growth
- Improving number of patents.
- To develop communication and soft skill of the students.

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Section IV:Recommendations for Quality Enhancement of the Institution
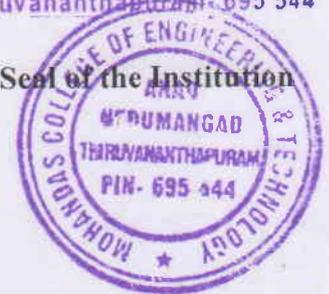
(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- All Faculty members to acquire Ph D and appointment of new faculty members with Ph D need to be focussed.

- Research activities to be strengthened and faculty members should focus on high quality research publications.

- Industry Institute interaction required to be emphasized.

- Interdisciplinary and value-added courses need to be introduced.

- Social networking to be strengthened.

- Entrepreneurship and Incubation centres activities to be strengthened.

- More Alumni participation and contribution needed for the greater interest of the students and growth of the college.

- Emphasizing IPR activities and Patents.

- Centre of Excellence in the cutting- edge technology need to be opened.

- Efforts have to be made to improve the consultancy activities.

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution

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Seal of the Institution

(Dr Ravendra Singh)   (DR BIJOY KUMAR NANDA)

(Dr S C Patil)

Sl.No	Name		Signature with date
1	DR. BIJOY KUMAR NANDA	Chairperson	BhJa 29.03.2023
2	DR. RAVENDRA SINGH	Member Co-ordinator	29/03/23
3	DR. SHANKARGOUDA PATIL	Member	29/03/23.
4	Dr. Darikhan Kamble	NAAC Co - ordinator	

Place Anad, Trivandrum .

Date 29.03.2023

29/03/23

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