



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY

**MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY, ANAD P.O,
NEDUMANGAD, THIRUVANANTHAPURAM - 695541**

695541

www.mcetonline.com

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Mohandas College of Engineering and Technology (MCET), Anad, Thiruvananthapuram, Kerala approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU) is a prestigious technical education project of the leading industrial group, the Mohandas Group of Companies, Thiruvananthapuram. MCET was established in 2002 by Sri G. Mohandas Chairman, VN Gangadhara Panicker (VNGP) Trust and Smt. Rani Mohandas, Secretary, VNGP Trust to fulfill the vision of late Shri. V N Gangadhara Panicker in the field of education.

The Institution is the realization of the vision of the Management to provide quality Engineering education to aspiring students of Kerala and around.

The activities of the college are carried out by Dr. Ashalatha Thampuran as the Director and Dr. S. Sheela as the Principal. The Institution offers six B. Tech programme of four year duration, three M.Tech programme of two years duration and MCA and MBA programme of two years duration. The Institution strictly adheres to the procedures and policies of AICTE and ISO. As a part of its quality assurance, the college has established IQAC, and received ISO 9001:2008 certification and NAAC accreditation.

The facilities and infrastructure of this college and its ambience enables the students to bring out the best in them. Consistent with its mission, MCET takes seriously its commitment to fostering and maintaining an environment conducive to student learning and growth through curricular and co-curricular programmes.

The college is situated in 37 acres of green surroundings nestling in a picturesque ambience with splendid endowments of nature. The calm and quite ambience of the college is ideal for academic pursuits. It is located at Anad village in Nedumangad along the Trivandrum – Ponmudi route, a 20 km drive from Trivandrum city. Set in an idyllic location, the college offers the right environment within a short distance from the city.

Vision

To become a centre of excellence in technical education, promoting research and bringing out professionals with social commitment capable of contributing to individual and national prosperity.

Mission

To produce excellent professionals with social commitment through state-of-the-art teaching-learning process assisted by highly qualified faculty, research, co-curricular and extra-curricular activities.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Situated in 37 acres of green land and availability of land for expansion.
- Availability of Library and well-equipped Lab facilities
- Availability of purified drinking water
- Availability of 300kW power grid through roof top Solar Plant.
- Accredited TBI by KSUM and IEDC
- Equipped to conduct online courses
- High speed Wi-Fi connectivity
- Secured campus free from outside influences
- Fitness centre for girls and boys
- In campus hostel facilities for girls and boys
- Institution's Innovation Centre is recognized as a 5-star rated IIC by MOE, Govt. Of India (2019-20); Top performing Innovation centre of one state by Kerala Start up mission, Govt. Of Kerala (2019-21)
- Good academic ambience

- Qualified and experienced faculty - 70% of faculty with more than 5 years of teaching experience
- Experts from research organizations also as faculty
- Faculty experienced in guiding students in industry-based projects
- Cohesiveness among faculty members
- Staff selection based on merit and experience
- Transportation is provided free of cost for staff members.
- Presence of a system that ensures training of faculty regularly

- An active Career guidance and placement cell
- Provides training for improving employability and campus placement
- A management that favours training for development of staff and students
- Easier approval process for mobilizing funds
- Operational independence in academic matters
- Regular conduct of National and international conferences.
- Host for offline and online competitive examinations
- Counselling and mentoring facility for students and staff
- Periodical visit of doctor to the campus – MOU with PR Medical Centre
- Group Insurance for Staff and Student
- Eligible centre for conducting ASAP, PMKVY, DDU –GKY
- Institution IEDC has been identified as Institutional Mentor under - Mentor Mentee Scheme of AICTE

- Students are exposed to the public through participation in exhibition of projects
- Students often secure top ranks in university exams
- Conducting ADD-ON courses based on industry demand
- Active Department Associations
- Alumni in responsible positions of companies across the world
- Presence of vibrant NSS unit
- Centre for pooled campus recruitment.
- PTA ,Alumni Association provide Merit Cum Means scholarship to meritorious students and tuition fee waiver for economically backward meritorious students.

- A fleet of buses for transportation of students operating in 10 routes

Institutional Weakness

- Located 20 km away from the city and inadequate public transport services
- Lack of adequate research guides in certain relevant areas.
- 10 percent of faculty members are with doctorate degrees
- Poor authorship of research papers in journals
- Inability to provide attractive opportunities to faculty/ Research guides
- Insufficient welfare measures for faculty and staff

- Absence of regular upgradation of department labs and libraries
- Difficulty in the upkeep of electronic / electrical systems that requires huge investment

- Most of the students joining are with relatively low academic scores
- More than half of the approved seats remain unfilled for most of the streams
- Students already joined choose the option of joining colleges near to them or government colleges and leave
- Students becoming entrepreneurs are negligible in number
- Pass percentage of students is low
- Students getting placed in core areas are very few

Institutional Opportunity

- Availability of fund in research organizations, Government and Central Government bodies
- Affiliated to a university (APJKTU) having open views on education
- Nearness of research organizations
- Government policies encourage ICT implementation in institutions
- Policies of government give priorities to societal needs
- Availability of incentives for use of non-conventional energy sources
- Opportunities for student and faculty exchange programmes
- Opportunities offering online/ offline certification courses of value
- Prospects for further development of certain sectors like biotechnology, Computer science, Electrical and Electronics
- Entrepreneurship development programmes of governments
- Higher education policies of government allowing collaboration with reputed foreign educational institutions
- Opportunities for getting sponsored research projects
- Increased employment opportunities in technology due to policies of State and Central Government
- Support of University, UGC, AICTE etc. to improve lab, library facilities
- Improved job opportunities in some areas like CS, Hotel Management and MBA

Institutional Challenge

- Difficulty in generation of funds for research projects due to the structure of self-financing colleges.

- Self-employment is still a taboo for majority of the society
- Presence of large number of self-financed engineering institutions in the neighbouring areas
- Geographical Limitations
- Better opportunity for experienced faculty in government sector and elsewhere
- Preference of students in opting engineering streams has volatile nature
- Quality of education is being compromised for low quality students
- Declining demand for Engineering course
- Students from outside Kerala are not preferred for admission in Kerala
- General reduction in eligible students for pursuing higher education
- Bright students prefer admission outside Kerala.
- Unexpected breakdown of machineries/ lab apparatuses
- Increasing attrition rate of teachers in self-financed engineering colleges

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Mohandas college of engineering and technology (MCET) affiliated to APJ Abdul Kalam Technological University (KTU) ensures the delivery of the KTU prescribed curriculum through well documented processes and effective procedures. The college has its own academic calendar, semester plan, courses diary coherent to KTU academic calendar and syllabus. There are well-defined course outcomes, subject notes and laboratory manuals. The course allocation is done based on faculty competence, experience and preference, and is finalized through a formal department staff meeting. Class, course and advisory committee meetings are conducted regularly to analyse the progress of course completion and the results of examinations. For laboratory work, continuous assessment is done based on viva questions. A dedicated exam cell in MCET facilitates the conducting of examinations, and IQAC of department reviews and approves the questions papers. The college council discusses the performance of each department subject wise and appropriate corrective actions are taken accordingly. Feedback from students on teaching & learning are taken in each semester. PTA meetings are held regularly to discuss student academic progress. Remedial courses and summer courses are conducted as per schedule. In addition to KTU prescribed syllabus, MCET conducts bridge courses for second year students, add-on courses for third year students, finishing school program for final year students, regular mentoring programs and facilitates MOOCs offered by NPTEL, SWAYAM and other approved agencies. The college spends considerable effort in the integration of cross cutting issues such as Gender, Environment and sustainability, Human values and Professional ethics into the curriculum. Equal opportunity to both genders in terms of admission and representation in student's union, class committee and course committee. Nature club, rain water harvesting facility, grid connected solar cell along with a number of core courses offered in curriculum in same areas are the initiatives related to environment and sustainability. Human values and Professional Ethics are instilled through various programs such as Charity visit, anti-drug campaigns, academic retreats and a well-formed code of conduct procedure. MCET collects regular feedback on academic performance and campus from all stakeholders through various means (online and offline) and actions are taken on regular basis.

Teaching-learning and Evaluation

The Institution has an established student centric outcome-based teaching-learning process that includes regular classes for theory and tutorial sessions for problem solving, participative learning through workshops, seminars

and industrial visits, and experimental learning from internships and MCET innovation centres aided by industry/research experienced faculty and ICT tools. The college organizes an orientation program for parents and students at the commencement of first year B.Tech program to familiarize themselves with MCET, curricular and co-curricular activities, facilities, rules and regulations. Induction training for two weeks is conducted for these freshers. In subsequent years, based on the performance on continuous internal evaluation and the university examinations, students are categorized into advanced learners and slow learners. Advanced learners are provided with additional support to continue to perform in their academics by joining in Minor Engineering and Honours courses as well as provided opportunity for their leadership enhancement programs by offering them roles of student representative in class, student council or other professional student chapters. For slow learners, MCET has an effective mentoring system in which a mentor guides slow learners, identifies areas of improvement, facilitates remedial classes and also intimates parents about the progress of their wards. Carrier Guidance and Placement Cell (CGPC) in MCET organizes career guidance program for all students. The College has an excellent student to teacher ratio of 7:1 with 50% of faculty having more than 5 years of experience. The faculty members of MCET leverage and encourage students to utilize the ICT enabled facilities in the class rooms and campus.

MCET adopted the Programme Outcomes (POs) and Course Outcomes (COs) proposed by KTU. Programme Specific Outcomes (PSOs) are developed in each department, and made available along with POs and COs in college website for each department. The college evaluates PO attainment and PSOs by both direct methods (assignments, internal assessment, end semester university examinations) and indirect methods (online exit surveys, alumni survey and feedbacks).

Research, Innovations and Extension

Research, Innovation and Extension activities of the college for the last 5 years are presented in criteria 3.0

The funds received for research activities by the faculty, for the last 5 years amount to Rs. 25.738 lakhs. The research publication by the faculty in reputed journals is 75nos and a number of papers published in National and International Conferences. Every year 3 National Level Conferences are organised separately to publish the findings of UG projects, PG projects and for faculty and researchers respectively of the Institution, named Colloquium, Prabandh and Techsynod. An international conference is also organized once in 5 years. The papers are published as proceedings of the conference.

An active IEDC cell is also working to enable students to transfer of technology. A number of awards have been received by our IEDC cell. Kerala Start-up Mission has recognised the innovating IEDC of our institution as Technology Business Incubation (TBI) in March 22

Extension activities to neighbourhood are done through National Service Scheme (NSS).The NSS unit of MCET actively organizes various social services activities for the communities from March 2004 onwards. The Major programmes include Blood donation camp organized every year on International health Day in association with Sree Chitra Medical College. The unit received best performer award of APJ Abdul Kalam Technological University for the year 2020-21.

Workshop were arranged for the students as add on programmes every year. The workshops include training on latest softwares, Manufacturing Technology and design and development etc.

19 MoUs were signed with Industry and R&D firms for research and training. This includes software training

institutes, consultancy firms, placement trainers etc. to train students and also to carry out joint projects.

Infrastructure and Learning Resources

Mohandas College of Engineering and Technology has completed 20 years in education and has well equipped infrastructure facilities to support more than 2500 personnel simultaneously. It has a centre (main) building with offices for Administration, exam cell and Department of Sciences, and seven separate blocks for various departments. Each department has three class rooms with seating capacity of 60 per class, and separate wings for laboratories. College has a Central Computing Facility (CCF) with 350 personal computers connected to five high end servers with internet bandwidth of 220 Mbps from where optical fibre connectivity is provided to individual departments. There are 21 Wi-Fi access points within the campus and a total of 19 ICT enabled class rooms, labs and seminar halls. The main building has a fully equipped air conditioned seminar hall with a capacity of 100 and Civil block has mini auditorium that can host 350 people at a time. College has an excellent library facility with a book collection of 34000 volumes, 10325 titles and provides access to 1500 e-journals covering different areas of Engineering, Science, Life Sciences and Business Management. Moreover, there is unique collection of resources on Humanities and Social Sciences. The college has adequate facilities for physical activities for both indoor as well as outdoor sports and fully equipped gymnasium for boys and girls. In terms of the maintenance of all the above-mentioned infrastructure and the supporting elements including electricity, water and housekeeping within the campus, there exist a well-defined policy and procedure and dedicated teams.

Student Support and Progression

Mohandas College of Engineering and Technology was established in 2002 in a rural area in Anad panchayath about 20km away from the heart of the city. Over the 20 years of its journey, this panchayath has developed a lot with the active participation of the students and the influence of the college.

The institute provides students by means of scholarships and freships issued by the government and other non-government agencies. In addition to this, the institute provides scholarships for meritorious students every year. For skill enhancement of students, soft skill, computing skill, and language labs are given to students.

Compulsory ADD-ON courses are given to the students of each stream depending upon the industry demand to enhance their employability. A fully residential finishing school is organized for the final year students every year which will help the students to crack the competitive exams and get placed in well established companies. Above 25% of outgoing students are placed/progressed to higher education every year.

NSS unit is so vibrant and they are organizing a number of activities for the benefit of societal improvement. In association with Sree Chithira Thirunal Institute of Medical Sciences and Technology (SCTIMST), college NSS unit is organizing blood donation camp bimonthly in the college premises. We are giving opportunity for the students to participate in sports and games organized by the college and by the university and get prizes. Students are also given opportunities in participating in cultural activities to polish their talents and get prizes.

Our institution has a transparent mechanism for timely redressal of student grievance in offline/online mode. Institution has a well established grievance and redressal cell. Institution has a very strong Alumini Association AAMCET giving awards and endowments to the meritorious students.

Governance, Leadership and Management

Mohandas College of Engineering and Technology, Anad, Thiruvananthapuram, Kerala founded in 2002 by VNGP Trust to fulfill the vision of late Professor Gangadhara Panicker in the field of education. The institution is the realization of the vision of the Management to provide quality Engineering education to aspiring students of Kerala. The college is situated in a 37 acres of green surroundings having excellent infrastructure to pursue excellence in technical education. The college is Certified by NAAC in 2016 with B+ and also an ISO certified institution from the year 2004. The College has several strands of distinctions which interweave to make it a College with a difference.

The quality policy of the institution is ““MCET is committed to impart value added education of highest quality to the students by providing state-of-the-art facilities in order to mould them into a competent professionals and better citizens. It also aims to enhance customer satisfaction through effective application and continuous upgradation of quality and management systems.”

The college has developed a systematic Quality Assessment procedures and practices as per ISO format and IQAC requirements. The IQAC plays a role in the quality initiatives in all aspects of teaching, learning and evaluation. The various body constitutes the college right from the Governing body to the individual staff, work as a team to achieve the plans envisaged in the strategic plan. A well defined administrative structure and policy helps to attain the laid out plans.

Institutional Values and Best Practices

The institute holds its values high and takes all efforts to mentor future citizens by providing an environment to learn and grow exercising ethical practices and social responsibility. The institute encourages equal participation of all genders in all activities. Various national and international days are observed by the institute and relevant programs are organized regularly for the benefit of the students and the faculty. The campus has alternate sources of energy and takes various measures for conserving the resources and maintaining a green campus. Management of various types of waste is done effectively in the campus. The campus has a barrier-free disable-friendly environment and provides assistance to the disabled as required. The institute provides an inclusive environment. Students are actively involved in various activities to give back to the society by conducting awareness programs and donation drives.

As the best practices, the institute offers an ADD-ON course to all students and a fully residential Finishing school to all eligible students. Together, these practices help the students to improve their technical skills, soft skills, interpersonal relationship and their overall personality. These courses enhance the confidence level of students in acquiring a seat for higher studies or in acquiring a job.

The distinctiveness of the Institute lies in its Innovation Centre which sheds light on the endless possibilities and opportunities the world of Innovation and Entrepreneurship offers. Innovation Centre shows its distinctiveness through diverse experimental approaches towards its activities, prioritizing student necessities by working unrestrained to mould them through a series of workshops, training programs and boot camps

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	Mohandas College of Engineering and Technology, Anad P.O, Nedumangad, Thiruvananthapuram - 695541
City	Thiruvananthapuram
State	Kerala
Pin	695541
Website	www.mcetonline.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	S.sheela	0472-2814578	9447000508	-	principal@mcetonline.com
IQAC / CIQA coordinator	Shalini A Nair	0472-2813039	9495642976	-	sanairs@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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State	University name	Document
Kerala	A.P.J. Abdul Kalam Technological University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	25-06-2021	12	Latest EoA available but not uploaded

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Mohandas College of Engineering and Technology, Anad P.O, Nedumangad, Thiruvananthapuram - 695541	Rural	37	35762

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Electronics And Communication Engineering	48	Plus two	English	60	33
UG	BTech,Electrical And Electronics Engineering	48	Plus two	English	30	9
UG	BTech,Computer Science And Engineering	48	Plus two	English	90	81
UG	BTech,Biotechnology And Biochemical Engineering	48	Plus two	English	60	16
UG	BTech,Mechanical Engineering	48	Plus two	English	60	12
UG	BTech,Civil Engineering	48	Plus two	English	60	10
PG	Mtech,Electronics And Communication Engineering	24	B.Tech	English	9	0
PG	Mtech,Electrical And Electronics Engineering	24	B.Tech	English	9	0
PG	Mtech,Computer Science And	24	B.Tech	English	9	0

	Engineering					
PG	MCA,Master Of Computer Applications	24	UG	English	60	35
PG	MBA,Master s In Business Administrati on	24	UG	English	60	34

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	12				23				74			
Recruited	6	6	0	12	7	16	0	23	15	59	0	74
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				77
Recruited	45	32	0	77
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				35
Recruited	21	14	0	35
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	6	6	0	4	5	0	1	0	0	22
M.Phil.	0	0	0	0	1	0	0	3	0	4
PG	0	0	0	2	10	0	14	54	0	80
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	2		3		5

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	75	0	0	0	75
	Female	86	0	0	0	86
	Others	0	0	0	0	0
PG	Male	22	0	0	0	22
	Female	46	1	0	0	47
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	1	2	2	1
	Female	3	4	1	0
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	61	57	54	54
	Female	59	50	42	40
	Others	0	0	0	0
General	Male	49	41	37	55
	Female	39	35	29	37
	Others	0	0	0	0
Others	Male	1	1	0	1
	Female	2	1	2	0
	Others	0	0	0	0
Total		215	191	167	188

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>In view of the NEP, the College has initiated new branches of study integrating different departments in addition to the existing inter/multidisciplinary academics envisaged by the University. During 2020, a Management Institute was started which offers MBA courses with specialization on Finance, Marketing, Human Resource (HR) and Operation system. In 2021-22 Academic year a new institute SPIHM, a Hotel Management Institute started in the campus. Academic programmes are redesigned by the University to include Multidisciplinary /Interdisciplinary courses as electives. All programmes are designed in such a way that students get maximum flexibility to choose elective courses</p>
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	<p>offered by other Departments. There are various club activities such as Music Club, Dance Club, Literary club, Science Club, Sports etc. by the students was established. It can be said that the College is proactively working towards implementation of the suggestions given in the NEP.</p>
2. Academic bank of credits (ABC):	<p>The Academic Bank of Credits (ABC) scheme has provisions of creating a digital infrastructure that will store the academic credits by the students of various higher education institutions within the country. This policy is transforming India's education system by 2040. Mohandas College of Engineering and Technology is in the process of implementing the NEP and suitable action will follow. The College shall abide by the structure and curriculum prepared by the affiliating University in this regard.</p>
3. Skill development:	<p>UGC has introduced DDU KAUSHAL KENDRAS (DDUKK) for promoting vocational education in continuation to its initiatives for introducing community colleges and B.Voc Programmes realizing the importance and the necessity for developing skills among students, and creating work ready manpower on large scale. Since this College is an affiliated Institute, such initiatives can be extended to students only when the University offers the courses. In order to increase employability, compulsory ADD-ON courses are offered to the students by the College during pre-final year based on the need of the hour. To enhance the employability, students also get opportunity through skill based courses offered by Additional Skill Acquisition Programme (ASAP) by Government of Kerala. Internships are offered to students for familiarizing with the industry environment. In the 2019 scheme curriculum -4 to 8 weeks paid internships is offered to the students. Finishing School is organized for the final year students to enhance the campus placement to the students. The objective of finishing school is to impart relevant training to the Final year students to equip them to campus placements.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>The students of Mohandas College of Engineering and Technology (MCET) involves in various activities related to cultural and holistic significance. MCET literary club inculcates the students and provides them opportunity to showcase their talents</p>

	<p>on multidisciplinary languages which include Malayalam, Hindi and English. Further, Professional Ethics, Constitution of India, Economics and Foreign Trade are included in curriculum of B.Tech and MBA, which teaches cultural values in Indian tradition. Technical report writing and language laboratory enhance the written and verbal communication skills.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>The learning outcome, curriculum framework and syllabi are prescribed by the APJ Abdul Kalam Technological University. The outcomes of each program are delineated clearly and the teaching plans outlined like course outcomes, program outcomes, and program specific outcomes. This enhances the quality of education being imparted to the students. Frequent student-faculty meetings help to align pedagogy to the desired outcomes. Students learn various important concepts in professional core subjects which enhance their analytical and problem solving skills. The project work and internships taken up in the final year enable the students to consolidate their knowledge, write and present technical reports and learn the benefits of team work etc. Student are encouraged to carry out project work as interns in industry to meet NEP 2020. There shall be academic auditing at stipulated intervals. The academic auditing is conducted by the Internal Quality Assurance Cell (IQAC) within MCET and external academic auditors appointed by the University. The IQAC monitor all the academic activities including all internal evaluations and examinations to meet NEP 2020.</p>
<p>6. Distance education/online education:</p>	<p>MCET is using online platforms such as Google meet, Zoom meet and Google class room for blended learning. The students are encouraged to study pen tutorial and MOOC courses offered by NPTEL and SWAYAM. The students can also study MOOC courses prescribed by the University as a part of Minor Engineering and Honors. Encourage MCA and MBA students to study MOOC courses offered by IITs, NPTEL and SWAYAM as part of the curriculum. MCET is not authorized to offer any programmes in Distance Education mode.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
689	658	822	1017	1272

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 223

File Description	Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
97	110	114	132	168

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
221.12	117.78	312.3	454.82	454.07

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

The college follows a curriculum prepared by the university. The APJ Abdul Kalam Technological University to which the college is affiliated practices a significant degree of decentralization and its academic administration is organised in the form of clusters especially for PG programmes. The college is under the Trivandrum cluster of KTU. Each cluster has significant autonomy in designing and developing curriculum subject to the approval of the KTU central Academic Committee.

The University, typically at the end of every academic year, requests the teachers in the affiliated colleges for feedback on the existing courses and the need for revision as well as the introduction of new courses. This college has devised various strategies to ensure outcome based learning and for strengthening our teaching learning process. These are mentioned below

- Subject/course allocation based on faculty preference, competence /experience and university syllabus is done through a formal staff meeting chaired by the HOD well before the semester starts.
- The academic calendar, semester plan and time table are circulated and course plans are prepared. Course plans are made with well-defined course outcomes, subject notes and learning materials like PPTs and manuals for conducting laboratory experiments.
- Course meetings are conducted in the presence of course chairman, and faculty members handling the classes, to check the availability of Lesson plan and Assignments.
- Class / Course / Advisory Committee meetings for students are conducted thrice each semester before the internal exams.
- Continuous assessment for laboratory work is done on the basis of viva questions and real time performance through well-defined rubrics.
- Course delivery as per lesson plan and completion of syllabus is monitored by HOD.
- To maintain quality, the internal exam question papers are approved by the IQAC before sending it to the exam cell.
- Student's feedback is taken each semester for the teaching learning process.
- PTA meetings are held class wise, after the first series examinations and the university examination result analysis of every semester, to discuss student academic progress and other matters.
- Progress reports for the series and university exams are dispatched to the guardians to appraise them about their wards' performance.
- Course files prepared by the faculty are audited by KTU internal and external auditors in a semester.
- The central library, department libraries, digital library with e-books is available to both students and faculty members.
- Bridge courses are organized and conducted for students to get a clearer understanding about the topics.
- A Mentoring system with maximum of 10 to 15 students assigned to one faculty is in place.

The Teaching and learning process has been enhanced by various Faculty Development Programs on recent updates in technology conducted by eminent experts from the academic and industrial fields. Add-on courses and invited talks help the students to meet experts in specific areas. Through NPTEL videos, MOOC courses and webinars, students get sound information about the recent activities in the world and can thus improve their skills.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 20

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 23.89

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
122	122	134	325	362

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human

Values, Environment and Sustainability into the Curriculum

Response:

Mohandas College of Engineering and Technology has taken impressive efforts to integrate cross cutting issues such as Gender, Environment and Sustainability, Human values and Professional Ethics wherever possible into the curriculum and more often by other indirect means.

Gender:

Gender equality, equality between men and women, entails the concept that all human beings, both men and women, are free to develop their personal abilities and make choices without the imitations set by stereotypes, rigid gender roles and prejudices.

- Mohandas College of Engineering and Technology ensures that equal opportunity is given to both genders in terms of admissions. Self-Study Report of Mohandas College of Engineering and Technology employment, and training programmes as a result of which gender issues generally do not arise.
- Women's Day Celebration has been conducted in association with Women cell
- Institution ensures equal representation of students (both genders) in student's union, course committee, class committee.

Environment and Sustainability:

The following are some of the initiatives towards integrating environment and sustainability into the curriculum:

- Nature Club of the college is functioning with a vision to make the college campus green and Eco-friendly. There are more than 30 species of trees including a wide range of traditional medicinal herbal plants in the campus based on Indian Knowledge System (IKS).
- We have various projects and publication related to sustainable development.
- Rain water harvesting facility with a pond of size 50m x 20m x 10m storage capacity and two open wells also.
- Grid connected Solar roof panel of 300 kW power supply. This takes care of major part of the power supply we need.

List of core courses related to Sustainable development

- Introduction to sustainable engineering
- Humanities
- Engineering Geology
- Economics and Business Management
- Environmental Engineering and Disaster Management
- Environmental Engineering 1
- Geotechnical Engineering 1 & 2
- Energy Conservation
- Business Economics/Life Skills

- Energy Management and auditing
- Environmental Engineering

Human Values and Professional Ethics:

Mohandas College of Engineering and Technology is committed to provide quality education in engineering and technology, to transform the youth into committed technical personal for the social and economical wellbeing of the nation with integral development of the personality and character building.

- Charity Visit is organized every year by the college to make the students aware of social responsibilities.
- Anti-drug campaigns have also been conducted by this institute.
- Plagiarism Checking is strictly followed in any type of publication.
- Academic Retreats are conducted for both staff & students every year.
- A well-formed code of conduct is formulated to motivate the students become a responsible citizen
- Books and School bags will be distributed to nearby government schools during every year on Praveshanolsavam Day.
- MCET have adopted Anad Panchayat , NSS Unit of MCET is given awareness to energy conservation, energy auditing to people of Anad Panchayat.
- Free tuition for physics and chemistry subjects to nearby students from standard 9th to 12th by NSS Volunteers.

File Description	Document
Upload Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 46.01

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 317

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 40.1

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
215	191	167	188	223

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
507	495	414	444	594

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 70.54

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
73	79	59	57	84

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
116	100	89	85	109

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 7.1

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

Students are given prime importance in the college. The college organizes an orientation program for the parents and students at the commencement of the programme for each year. Induction training for newly inducted students for one to two weeks duration is conducted every year. At the end of the induction training, a diagnostic test will be conducted. At the outset students are identified as advanced learners and slow learners so that special attention can be given where it is required. In subsequent years, categorization is made based on the performance of students in academics, Co-Curricular and Extra-Curricular activities. Advanced learners are encouraged, motivated and advised to perform better in their academics and providing them an opportunity to become class representative and student representatives in various committees to enhance the leadership qualities.

- Encouraged to join B.Tech Honors and B.Tech Minor Engineering Programmes and motivated to carry out innovative projects and publish papers in Conferences and Journals.
- Encouraged to join additional certification programmes such as MOOC offered by NPTEL, SWAYAM etc.

For Slow learners

The College practices a robust student academic counselling process.

- The College has an effective mentoring system to monitor the performance of slow learners. The mentor, who acts as a guide and local guardian, counsels the slow learners, identifies the nature of their problems and helps to overcome the inabilities and hurdles faced by the slow learners.

- Remedial classes are provided for slow learners in difficult subjects and question bank is prepared by faculty to help slow learners.
- Arranged advisory meetings with parents to discuss the progress of their wards.

The College has adopted an Outcome Based Education through experiential learning, participative learning and problem solving methods for enhancing the learning experiences of students.

Students are involved in real time and societal projects which are funded by the College and various organizations. The talks by Industry Experts, academic experts, hand on training to new softwares and interactive sessions with successful alumni are arranged for students so as to update their knowledge and to bridge the gap between the industry and academia.

Technical fest Colloquium organized by the College every year and industrial visits organized gives more technical exposure and promote industrial interaction.

The College has a digital library KNIMBUS provided with a good number of books, eBooks, technical magazines, journals, e-journals. The Career Guidance and Placement Cell (CGPC) organizes career guidance programs and a fully residential finishing school for the students. This improves the overall development of students and enable the students to make realistic academic and career decisions.

Teachers use ICT enabled tools for effective teaching-learning process to help students work collaboratively and thus develop higher-order thinking skills and encourage students to be engaged in the learning process.

A detailed academic plan, and multiple choice questions with solutions, are made available in the campus automation software ET Lab. All students can access the ET Lab through their login id.

File Description	Document
Upload Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 97.8

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
110	110	115	132	168

File Description	Document
Upload supporting document	View Document

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 12.4

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
23	14	15	11	14

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The academic calendar is prepared for every semester in line with the University calendar, which provides the information on scheduled timetables for internal tests, evaluation schedule etc. As per the guidelines of University, it is mandatory to conduct internal tests twice in each semester and the internal marks obtained are to be entered in the web portal of the University within the stipulated time.

The following actions are taken for the fair conduct of test and also for the transparent and robust evaluation of the students:

- Student performance is evaluated with continuous assessment and end semester assessment.
- Schedule and syllabus of series examination and end semester examination and assignment are communicated to students well in advance.
- The question paper pattern for the two internal examinations has been standardized. The question paper pattern is similar to that of University end semester question papers.
- Question papers are set based on Course outcomes and are approved by HOD / DQAC.
- The student can approach the teachers in case they need clarification on the award of marks based on the scheme of valuation discussed in the class.
- After each internal test, the marks are consolidated and the same is analysed by the College

Council.

- The class Advisory Committee consisting of all students of the class, Faculty Advisor and all faculty handling subjects discuss the test marks and arrive at suggestions for improvement.
- The Class Committee and Course Committee discuss the overall activities such as syllabus coverage, difficulty in understanding the subjects, and all other related aspects.
- Retests are conducted for students as per the regulations of the University.

College Level:

- In case of any grievance regarding the internal assessment, the student is free to interact with the concerned faculty and get it resolved. If not, the students can approach the HOD.
- The unresolved grievance, if any, is referred to the institution level Grievance Redressal Committee.
- At the end of each semester, the internal assessment marks of all the students are verified by the Academic Council of the College before uploading it in the university portal.

At University level:

- Students can express their grievances if they are not satisfied with the marks awarded for the University examination and they can apply for revaluation to the University
- The University also provides the students with an option of obtaining a photocopy of their answer sheets for scrutiny.
- Other types of grievances like data missing in the question papers, question asked from outside the syllabus, toughness of the question paper etc., are communicated to the Controller of Examinations by the concerned faculty through the web portal on the same day of the conduct of examination, after getting the approval of the HOD's concerned and the Principal, for necessary action.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 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

Response:

The institution has adopted the Outcome Based Education (OBE) in its teaching, learning and evaluation process and strives for continuous improvement.

The Program Outcomes (POs) are defined by the University.

The Program Specific Outcomes (PSOs) are framed by the respective department through brainstorming in the Department Academic as well as Academic Committee.

The Course Outcomes (COs) are defined in the syllabus of each subject.

Consequently, Program Outcomes, Program Specific Outcomes and Course Outcomes for all the programs offered by the institution are stated and displayed on the college website-department wise, from the first year to the fourth year for communicating with teachers, students and other stakeholders.

Mechanism of Communication:

Program outcomes and program specific outcomes for a particular program are stated displayed and communicated through various ways such as:

1. Communicated in departmental faculty meeting.
2. Displayed in departmental webpage of institutional website
3. Displayed in class rooms, Staff rooms and in the rooms of Head of the Departments.
4. Displayed in departmental library
5. Displayed in department notice boards
6. Incorporated in etLab (Campus Automation software)
7. Communicated in class committee meeting
8. Course Outcomes are displayed in Lesson plan, Lab records, internal exam question papers and course file.

The institution evaluates its POs and PSOs by the following ways.

1. Direct assessment method
2. Indirect assessment method

DIRECT ASSESSMENT METHOD

- The departments under this institution conduct two internal examinations and two assignments to assess the attainment of the course outcomes (CO) and in turn contributes to the attainment of the programme outcomes (PO) and Programme Specific Outcomes (PSO).
- Attainment of PO's using direct assessment method is done by calculating the weighted average of COs attained using the CO-PO mapping of all courses.

INDIRECT ASSESSMENT METHOD

PO attainment using indirect assessment method includes the following ways:

1. Exit Surveys are conducted from the passed out students in each academic year
2. The co-curricular activities of students.
3. Feedback obtained from the workshops and seminars conducted to bridge the gap between the curriculum and POs.
4. Alumni Survey The overall PO attainment can be calculated by assigning appropriate weightages to the direct and indirect assessment methods

File Description	Document
Upload Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 81.76

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
129	191	291	251	317

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
202	227	311	318	384

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.19

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 21.99

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
0.19	0.20	0.91	7.226	13.462

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Mohandas College of Engineering and Technology has created a well developed environment for innovations and transfer of knowledge. This is done through the institute, Innovation & Entrepreneurship Development Centre (IEDC-MCET) and the MCET Research Wing.

IEDC-MCET aspires to shed light on the endless possibilities & opportunities in the world of Innovation & Entrepreneurship. It shows its distinctiveness through diverse experimental approaches towards its activities, prioritizing student necessities over anything by working unrestrained to mold them into their best versions through a series of workshops, training programs, boot camps & much more.

Under Govt. of India, MHRD Innovation Cell's, Institution Innovation Council (IIC-MCET) was also established for providing a Startup Ecosystem for students to strive their path into the World of Innovation & Entrepreneurship. Women Empowerment through Entrepreneurship Development (WEED-MCET) is functioning with the financial support from Kerala Startup Mission, Govt. of Kerala.

Research Wing of the institute coordinates funding of student projects from institute as well as from external agency. Also motivates students and faculty to publish their research findings by organizing conferences, workshops, faculty development programs and encourage students and faculty to publish

papers in reputed Journals etc.

From 2017 to 2022, 96 Research papers have been published in Journals, 19 MoUs signed with Industry and R&D firms and research funding for an amount of Rs. 25.738 lakhs has been received for faculty. Every year a national conference for faculty and researchers - Techsynod and Colloquium for B.Tech students from our college and other affiliated colleges and Prabhandh - a National conference for PG students are organized by the research wing of the institute.

File Description	Document
Upload Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 72

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	11	10	24	7

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.34

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	13	10	10	22

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 1.26

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	56	101	124

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 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.

Response:

Extension activities to neighbourhood are done through National Service Scheme (NSS). It was formed with a noble aim of serving the different sections of the under privileged and the needy. The NSS unit of MCET actively organizes various social services activities for the communities from March 2004 onwards. More than 50 programmes were organised every year to all sections of people in and around Anad Panchayath including 5 days NSS camps..

The Major programmes include Blood donation camp organized every year on International health Day in association with Sree Chithira Thirunal Institute of Medical Sciences and Technology (SCTIMST). On all special day programmes are conducted like Debate on global issues on National Youth day, talk on patriotism on Nethagi Subash Chandra Bose day, India become world power on Martyrs day, importance of polio vaccination on National Polio immunization day, importance of healthy diet on world health day, measures to stop tuberculosis on world TB day, essay competition on mother language day, challenges faced by women on women's day, how to keep liver healthy on world liver day, covid 19 and mental

health on world health day, planting 100 trees on earth day, Voting awareness campaign distribution of mask at public health centre and so on

In order to equip rural area students to write entrance exam, online and offline Entrance Exam coaching were given to nearby school students.

Posters were made on important social issues like acceptance of women child, importance of wearing mask etc. and circulated among public.

File Description	Document
Upload Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Awards and recognition were received for IEDC cell, NSS unit and faculty of Mohandas College of Engineering and Technology for the extension activities and outreach programmes done by the college cells and faculty members for the quality research work.

Faculty in charge of IEDC cell Prof. Pradeep Raj has undergone Innovation Ambassador(IA) training Advanced level of MoE's Innovation cell of AICTE during 2021-22. During the year 2019 to 2022 IEDC received top performer appreciation award and second runner up in the 'Top performer in District-Thiruvananthapuram'. It is selected as one of the mentor mentee institute by the MoE Innovation Cell(Government of India) under mentor mentee programme 2021 - 22. An amount of Rs. 2.25 lakhs has been sanctioned under mentor mentee scheme of IIC institution 2021- 22.

NSS unit has conducted an average of 75 program every year and received best performer award of APJ Abdul Kalam Technological University for the year 2020-21.

Prof.Madhukar Mallayya has received Madhava Ganitha Puraskar award for the year 2020.

File Description	Document
Upload Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 124

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	58	25	14	22

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 14

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

Seminar Halls

The college has a number of well-equipped seminar halls. Many of them are air conditioned. There is a fully equipped air conditioned Seminar Hall of CGPC in the Main Block and it can accommodate 100 people. A mini auditorium to accommodate 350 students are available in Civil block. Each department have separate seminar halls for UG and PG.

Central Computer and Internet Facility

Central Computer and Internet Facility cater to the computing requirements of the institution. There are more than 350 Personal Computers in the Institution. The Central Computer Centre is equipped with 5 high-end servers with UPS for various applications. Intranet provides access to the students from various department libraries, seminar halls and main library. They can view the NPTEL or other video lectures given by eminent professors from IIT and other reputed institutions on various subjects. The central computing facility is located in the Administrative block. The working hour of the Central Computing Lab is from 8:30 AM to 10 PM and it is open on all days. The Centre is connected to Internet through a 220 Mbps leased line internet connection of BSNL and Asianet, which is distributed to different terminals in the campus. Optic Fibre Connectivity is used for campus networking. Database automation software is used to integrate and automate the administrative and academic activities of the college.

Smart Classrooms

As a first step in making the classrooms as smart classrooms each department is provided with a portable LCD projector along with a laptop which can be used in the class rooms. Seminar Halls are equipped with smart board, internet connectivity and LCD projectors for conduct of e-teaching. PG class rooms are wi-fi enabled and provided with adequate computers and networking.

Sports and Games Facility

Sports facilities are provided to the students under the Professor of Physical education. We have facilities for indoor and outdoor activities. Outdoor facilities are provided for volleyball, basketball, football, cricket, shuttle badminton and athletics. Indoor facilities are provided with basketball court, shuttle court, table tennis, chess, carroms and fully equipped gymnasium for boys and girls in the Mohandas Hall.

Basketball and Volleyball training is given to students. The college has Basketball and volleyball coach. For cricket practice a practicing net is also arranged.

Well-equipped gymnasium and fitness center is established in our institution and separate trainers for girls and boys are provided for giving training.

Documentation Centre

The documentation centre is a central facility situated the lab of SPIHM block.

The facilities provided are

RISO Graph

Colour Laser Printer

Laser Printer

Line Matrix printer

ID card Printer

Canon – High volume photo copying and printing machine

Spiral binding equipment

The students can take printouts for academic purpose from here.

Other Facilities

The following additional facilities are available for the students

1. 24 hours ambulance service
2. Infirmary functioning in the BT department
3. Sick rooms available in the EEE department
4. 24 hr internet facility for both day scholars and hostellers

File Description	Document
Upload Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 10.39

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
21.41	54.34	14.62	32.95	38.76

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 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

Response:

The college Central Library is named after Prof. V .Jagannatha Panicker who was a great scholar, renowned teacher and a journalist par excellence. His unique collection of invaluable books on all branches of knowledge was donated by his family to the Central library and maintained here as **Prof. Jagannatha Panicker Knowledge Centre**. The Central Library and Information Centre offer a wide range of resources and services. It attempts to provide accurate and up-to-date information to support the curricula needs of the undergraduate and postgraduate programmes.

The library facility consists of Information Desk, Circulation section, Reference section, Periodical Section, Stack area, Bound Volumes 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 follows the open stack access policy for its members.

We have a book collection of 34000 volumes and 10325 titles and continue to grow both in quantity and quality. We have recently added so many books to cater to the needs of the postgraduate students. Besides books, the collection includes magazines, technical journals, newspapers, CD/DVD's. In addition to this we provide access to over 1500 e-journals through online databases. The core collection covers subjects such as computer science, information technology, engineering, pure sciences, life sciences and business management. The humanities and social science section of our library is very unique and invaluable

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

We have 12 Computer labs with more than 350 systems connected by LAN with layer 2 & 3 switches. High-speed internet with a bandwidth of 220 Mbps provided by two different ISPs is available in all the locations within the campus. All the computer systems have uninterrupted power supply with different UPS of 10 KVA and 20 KVA. Generator backup supply of 200 KVA & 82.5 KVA is also available in the campus. The institution has ERP (ET Lab) to handle all the administration and academic related activities. There are five servers used for various purpose like library, mail, accountancy, students and staff. Smart class with projector is provided for all departments.

There are 21 wifi access points in different areas within the campus that can be accessed by students and staff members.

Laboratories (All Labs & Computer centre): Each laboratory has one teacher as lab in charge, a Lab

Assistant and attendant. Lab in charge is responsible to maintain and upgrade the laboratory with necessary equipment from time to time to cope with change in the syllabus.

Dead stock verification (Physical Verification) is carried out to verify rking/nonworking/missing equipment etc.

Preventive maintenance and performance monitoring is carried out. Every laboratory assistance keeps the record of utilization of equipment, computers and other required material for experiments.

IT facilities: All departments in the institute are having PCs, essential software and peripherals .The laboratory technicians and system administrator maintain the IT facilities in the institute. In case of major issues of maintenance, vendors are hired for maintenance of IT facilities.

CCTV, Security etc: To maintain internet connectivity and CCTV security system, network and system administration team is appointed. LCD projectors, EPBX system, air conditioners are maintained with the help of external agencies. Security staff including ladies guards under a security supervisor is employed to safe guard the whole premises

File Description	Document
Upload Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 1.97

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 350

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 69.8

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
199.70	63.4	98.32	312.2	415.31

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 11.01

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
122	163	104	63	39

File Description

Document

Upload supporting document

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Institutional data in the prescribed format

[View Document](#)

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description

Document

Upload supporting document

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Institutional data in the prescribed format

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5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 31.16

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
433	104	239	391	222

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: B. Any 3 of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 26.81

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
43	38	52	110	142

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
206	194	294	326	416

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 33.33

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
0	5	2	0	1

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
5	7	5	2	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 74

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	3	13	57

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 20

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
09	0	29	36	26

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

ALUMNI ASSOCIATION OF M-CET (AAMCET) has been formed in the year 2006. The main objective of this association is to maintain contacts of Alumni with the Alma mater and to foster the relationship between the past and the present students of this college. The Director / Principal is the Chairman of the AAMCET. The activities of AAMCET are being managed by an executive committee which consists of Faculty members and student members. On completion of course, it is mandatory that all the final year students are enrolled as members of AAMCET. Every Year AAMCET is organizing an event 'PRAYAN'

for the final year students during the month of June – July for enrolling all outgoing students as a life member in AAMCET. Annual general body meeting is scheduled in the college premises in December on Saturday or Sunday which is closer to the Christmas. It also provides awards to students who excel themselves in Academics. First three University rank holders are provided with gold medals. Merit cum Means scholarships are

also given out to deserving students. Memorial awards/ Endowment awards constituted by well- wishers as below are also conferred on the Alumni day:

- Smt. Sarasija Thampuran Memorial Endowment Award for the best outgoing student instituted by Dr. Ashalatha Thampuran.
 - Dr. Sutapa Sen Memorial Endowment Award for the best outgoing B TECH student from Electrical & Electronics branch instituted by Dr S Dasgupta, former Head of Electrical Department.
 - Sri Balaram Gopalan Memorial Award for the student with highest marks in Engineering Maths instituted by Smt. Sreedevi former faculty in Mathematics.
 - Mr. Dileep Endowment Award for the student with good technical skill in Electrical & Electronics branch instituted by Mr. Dileep (2006 pass out, IT Department).
 - Mr. Muraleedharan Nair Endowment Award for the student with highest GPA upto Sixth Semester instituted by Mr. Muraleedharan Nair former Professor in Mathematics.
 - Shri. Sundaran Memorial Endowment Award for the student with good performance in S1 S2 workshop instituted by 2010-2015 batch students.
 - Smt. Sudha Dasgupta Memorial Endowment Award for the Best outgoing M Tech student of Electrical & Electronics branch instituted by Dr. S Dasgupta former Head of Electrical Department.
 - Smt. Kaushalyavati Memorial Endowment Award for the best outgoing female student instituted by Mr. Premjit Singh.
 - Dr. Sriramachari Memorial Endowment Award for the best outgoing student in Biotechnology and Biochemical Engineering branch instituted by Prof S Alwan , former HOD, Dept of BT and BCE.
 - Sri. T K Divakaran Memorial Endowment Award for the best outgoing student in Civil Engineering branch instituted by Dr. S Sheela, Principal.
 - Smt. Madhavi Amma Memmorial Award for the best outgoing female student in Computer Science branch instituted by Mr. Sabarish (2003 – 2007 Batch, CSE Department).
- Academic proficiency awards for the students with highest overall GPA are given to the students from each branch on the occasion.

File Description	Document
Upload Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 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

Response:

Mohandas College of Engineering and Technology(MCET), Anad, Thiruvananthapuram, Kerala approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU) was founded in 2002 under VN Gangadhara Panicker(VNGP) Trust . by Mr.G Mohandas as chairman and Smt. Rani Mohandas, Secretary to fulfill the vision of late Professor Gangadhara Panicker in the field of education. The institution is the realization of the vision of the Management to provide quality Engineering education to aspiring students of Kerala.

In 2022, it comes under the Mohandas group of institutions with Mohnadas Institutes of Management and Southpark Institute of Hotel management as co institutions.

VISION

To become a centre of excellence in technical education, promoting research and bringing out professionals with social commitment capable of contributing to individual and national prosperity.

MISSION

To produce excellent professionals with social commitment through state of art teaching – learning process assisted by highly qualified faculty, research, co-curricular and extracurricular activities that enhances individual and social empowerment.

Decentralization and Participative Management

MCET meticulously plan its activities in order to achieve the stated vision and mission at various levels.

Operational autonomy

Operational autonomy in academic and administrative affairs is provided by delegating authority to HODs of each Department. Planning, scheduling ,requirement analysis and budgeting of activities are done at the department level following a participatory decision making process. The multifaceted stakeholder feedback system and external audit are tools to facilitate the flow of information for institutional review by the management.

Academic Planning:

At the beginning of every semester the college council prepares a calendar in accordance with the university calendar for the semester which provides detailed information on the day to day activities.

HODs conduct staff meetings at department level for implementing the plans by allocating the course to each faculty members based on their performance and experience and the Academic Council meets specific dates to discuss about the teaching learning process. For effective implementation of policies and plans, the college emphasizes on the reviews made by various committees constituted for different activities.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 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

Response:

Governing body

The Governing Body assists the Chairman with regard to broad guidelines, policies and framework for the improvement of the institution. The governing body of the college administers and guides the different affairs of the college. It comprises Sri.G.Mohandas, Executive Trustee and son of Sri.V N Gangadhara Panicker is an eminent industrialist, educationalist, hotelier and prominent social personality. His extensive business interests include auto-mobiles, hotels, resorts, pharmaceuticals and plantations in India and the Middle east. Smt. Rani Mohandas, an astute businesswoman, is on the Board of a number of companies. She is responsible for the diversification of the group in to areas such as pharmaceuticals and Education. Her managerial and leadership capabilities have proven to be of immense value to the running of various educational institutions under the trust.

Mr.Krishna Mohan is a third generation industrialist and businessman from the Panicker family. Young and dynamic, he is professionally trained to be a lawyer. With excellent administration skills and entrepreneurship, he plays a crucial role in the varied and vast interests of the Mohandas Group.

Mr. Gopi Mohan Nair is currently the Vice President of Mohandas Group of companies and an alumnus of the Institute of Hotel Management, Catering & Nutrition- Pusa, New Delhi. He has been associated with the hospitality industry for 47 years.

Director and Principal are the executives. The College Management Council consisting of all HODs and certain functional heads help the executives in all administrative and academic matters including discipline, policy planning and implementations.

Academic Council consisting of HODs review the academic matters like series test performance, university examination performance, progress of course completion etc and gives its recommendations which are further vetted by College Governing Council and approved by Principal and Director before

implementation.

For financial requirement for high preference will be the recommendation is forwarded to Management by the principal/director for sanction of funds.

Student's feedback on faculty and institutional facility are also considered in designing a future plan of action.

A very active democratically elected student council is functioning in the college with two faculty members as advisors. The college union chairperson will be one of the chief organizers for the college level activities. The faculty and the students together coordinate all activities of the college during the year.

Apart from this, entities like Career Guidance and Placement Cell, Physical education, IEDC, NSS, Centre for continuing education etc. are also plan and carry out various programmes for the benefit of students.

Strategic Planning:

A well defined strategic plan is developed for the college in the year 2016. The plan is revised in the year considering various changes in the institution structure as well as the changes in the field of technical education in post covid era. The plan was designed after a series of meeting of faculty and staff of MCET. The Vision and Mission statement were reviewed and retained. The SWOC analysis is carried out by the each department and College development strategies were finalized. The plans are divided into short term- to accomplish under 3 years, Medium term- to accomplish upto 2030 and long term goal upto 2035.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

Set in a picturesque location with more than 35 acres of land, MCET provides excellent working environment for its staff members. Some of the facilities provided by the college are

1. Free Transportation: The college provides excellent free transportation facility to its staff members. Director, principal and Senior professors are given cab facility and other faculty and other staff can avail college bus .
2. Leave- Casual, Medical, Maternity, Semester break leave(faculty) and Earned Leave
3. Free refreshments for internal and external exam duty.
4. Group insurance
5. Employees Provident Fund
6. TA/DA and FDP registration fee for conferences and training .
7. Allowance for faculty and staffs for additional work done.
8. Sanctioned leave for higher studies

Apart from this , a staff club and Teacher's forum is also very active in the college. These forum's organizes tour programme, family get-togethers, feast for festivals etc .

An effective multilevel appraisal system exist in the college . The staff appraisal include faculty, technical and office staffs. The faculty is also evaluated by the students.

i. Faculty Evaluation by Students. : For all theory papers, Students are given a chance to evaluate the teachers on various aspects. According to the classroom teaching, knowledge level, willingness to help, punctuality ,presentation techniques etc. The performance of a faculty member is assessed based on the mark allocation to the above criteria. This facility is integrated to the e-governance system to avoid manual work.

ii. Self Appraisal System:

As part of the performance management system, an elaborate Staff

Appraisal System consisting of Self Appraisal by faculty in which the faculty assesses himself/herself on academic1 which is on teaching learning activities, academic2 which is on research, development and extension activities and academic 3 consisting of administrative activities and other responsibilities It helps them to identify individual areas of growth and to work towards it.

The final section is at the total disposal of the HODs and the Principal. Here the faculty is rated from one to four based on their performance. Student feedback for all the faculty members are considered and the results are analysed. These duly filled forms are then further analysed and the feedback thus obtained is judiciously addressed for the betterment of the teaching learning process. Continued poor assessment for more than 2 years will invite actions like increment stoppage and even dismissal. The teachers adjusted “excellent” are considered for Best Teacher Award.

The following factors are effectively scrutinized in the appraisal system for teaching staff. The Students feedback, University Examination results, Attitude, involvement, commitment and achievement of a faculty with respect to his/her non-academic secretarial activities, Feedback and review of performance from other faculty members in peer groups.

A similar 360 degree feedback system exists in the college for lab and non teaching staff. from the faculty / lab staff / administrative staff.

File Description	Document
Upload Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 14.17

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4	0	0	24	60

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development

Programmes (FDP), professional development /administrative training programs during the last five years**Response:** 23.6**6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
22	32	6	91	18

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
95	0	0	0	0

File Description**Document**

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)**6.4 Financial Management and Resource Mobilization****6.4.1 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)****Response:****Resource mobilization policy and procedures**

1. Major sources of institutional receipts fund are the fee collected from the students.
2. The fee structure will be in accordance with the agreement signed by Self Financing Engineering Colleges with Government of Kerala these fees are fixed and announced in the prospectus of the college.
3. The institution makes earnest efforts to attract funds by way of external funded projects.
4. The college received funds for IEDC cell from AICTE- Ministry of Education, Startup mission for conducting various programs. It also received fund from NSS Technical cell , Govt of kerala.
5. Fund through sponsorship from University/ Govt.Body/Private parties is acquired for conducting various training and festivals.

6. PTA fund is used for student support activities.
7. Fund deficit if arises will be managed through bank loan and contributions from the trust.
8. The college do not maintain any reserve / corpus fund.

Financial monitoring:

Institutional mechanism to monitor effective and efficient use of available financial resources.

Financial monitoring mechanism involves the following:

- External audit done annually by a registered Chartered accountant and the internal audit done by a team set up within the college.
- The audited account statement is submitted every year to AICTE as a mandatory requirement.
- The Income tax statement is regularly filed.
- Transparency in transactions through bills and vouchers.
- Single point transaction of money, only through the cashier
- All major payments done through Bank.
- All major expenditures incurred are on the basis of inviting tenders and quotations.
- The associated activities like PTA , CCE etc are also undergoing financial auditing.

Effective utilization of resources:

i. Conduct of courses under Govt of India schemes like Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY), MoRD, Government of India , Pradhan Mantri Kaushal Vikas Yojana (PMKVY) .

Annual stock verification

Every year , the college conducts annual stock verification of all departments and Entities including library. The team allotted for stock verification check stock registers with the physical items of all departments and library books. In case any damages/loss, they prepare a report for the same.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 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

Response:

The college has developed a systematic Quality Assessment procedures and practices as per ISO format and NAAC and NBA requirements. The IQAC

team plays a role in the quality initiatives in all aspects of teaching, learning and evaluation.

The Objectives of IQAC are:

To develop a system for continuous , consistent and catalytic action to improve academic and administrative performance of the institution.

To promote measures for the institutional functioning towards quality enhancement through internationalization of quality culture and Institutionalization of best practices.

The IQAC shall carry out functions:

- a. Development and application of quality bench marks/ parameters for various academic activities of the college
 - b. Facilitate the creation of a learner centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
 - c. Arrange for feedback response from students, parents and other stake holders on quality related institutional process.
 - d. Disseminate information various quality parameters of higher education
 - e. Organize inter and intra institutional workshops, seminars on quality related themes and promote Quality circles.
 - f. Document various programmes and activities leading to quality improvement.
 - g. Act as a nodal agency of the college for coordinating quality related activities including adoption and dissemination of best practices.
- Preparation of self-study reports (SSR) and •Preparation of the Annual Quality Assurance Report (AQAR) is also undertaken as part of IQAC. Department level quality assurance (DQAC)is also formed to ensure quality in teaching learning processes.

File Description	Document
Upload Additional information	View Document

6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**

- 2. Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3. Participation in NIRF**
- 4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 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

Response:

The institute takes the following measures for promoting gender equity. The institute has an Equal Opportunity Cell for identifying transgender students and helping them adapt to the environment of the institute. The aim of the cell is to make their life easy and comfortable and provide them all opportunities available to other students. The female to male ratio in the case of faculty and in the case of students are largely tilted in favour of female except in Mechanical Engineering stream. The female population enjoys all the privileges available to male.

Coaching is provided by the institute for students who wish to appear for engineering entrance examination. The coaching is free for all aspiring students irrespective of the religion, cast and gender. The institute encourages equal participation in cultural and technical festival promotions, NSS activities, surveys and outreach programs.

Safety for all are ensured by posting security guards and by installing CCTV cameras at various parts of the campus. Safety in various laboratories is ensured by enforcing safety measures each time the students enter the laboratories. Girl students are given special instructions on safety and precautions. Lab coat is compulsory for the students entering in the laboratories.

Various activities and awareness programs are organized under the Women's Cell of the institute. An Internal complaint committee exclusive for women is constituted in the institute. To handle problems faced by women exclusively, there is a Women's grievance and Redressal committee. Various empowerment programs are conducted for women in the institute under different banners. Women Empowerment through Entrepreneurship Development (WEED-MCET) aims to spread awareness about gender equity in entrepreneurship. WEED empowers young minds by providing them the right set of skills and expertise with the financial support from Kerala Startup Mission, Govt. of Kerala. WEED-MCET organizes programs such as Women Summit. IEEE Women in Engineering (IEEE WIE) is an active society in the campus. There is an exclusive entrepreneurship cell for women.

The college has set apart 3% of seats for differently abled students as per Government norms. However, the number of such students are very low. Special care vehicle passages between different blocks within the campus. Special toilets and furniture are provided to differently abled students on need basis. Special care and counseling are offered. During examination, special arrangements and attenders are made available for disabled students.

File Description	Document
Upload Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: C. Any 2 of the above

File Description	Document
Upload supporting document	View Document

7.1.4 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)**Response:**

The institute organizes several activities to build an environment for ethical and cultural values among the students and staff. The students, teacher and staff jointly celebrate the cultural and regional festivals like Onam, Christmas etc., Days of importance like New-year's day, Fresher Party, Teachers' Day, Women's Day, Yoga Day, National Education Day etc. are jointly celebrated to bring in a feel of inclusiveness.

Students from outside the state are encouraged to join the college and those students are required to meet the Principal in person and seek admission. Subject to the eligibility certificate and migration certificate issued by the concerned universities, admission is made either on merit or under the management quota. The campus has students and faculty from different parts of the state and outside the state. Including a candidate belonging to a different place and culture into the institute opens up opportunities to acquire skills and practices prevailing in other parts of India. It also supports cultural diversity and provides exposure to the students.

To develop a sense of duty and social responsibility among the students, they are given multiple opportunities to interact with the local residents. Students regularly visit the houses in neighboring area and make the locals aware of energy saving, electricity bill reading and calculation etc. Students and faculty are also involved in giving awareness classes to students of schools in the neighbourhood. As part of social responsibility, the institute provide notebooks and stationery to students of different neighboring schools.

Faculty are involved in giving free coaching for engineering entrance examination to needy school students. The institute also organizes an Open House and a technical exhibition every year for school students. This gives the students an opportunity to visit various labs of our institute. The exhibition helps in raising inquisitiveness in them and aspiring them to become engineers.

Special stress is given to Universal Human Values in the induction program for first year students. 'Professional Ethics' is a mandatory course in their curriculum.

File Description	Document
Upload Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice 1.

1.Title of the Practice

ADD-ON course

2.Objectives of the Practice

(1) Identifying the ADD-ON course which is relevant in the current scenario. (2) Motivating the students to seriously pursue the ADD-ON course. (3) Motivate the staff member to ensure the expected outcomes are met. (4) Setting up the required facility. (5) Meeting the objective as per the schedule.

3.The Context

In today's competitive environment, skill development plays a very important role and provides an edge to the students in getting good placements. In addition, it will also jump-start their career by giving them the confidence to learn new skills and put it into practice. For this, a course that offers good opportunities to the students, but not a part of curriculum, is identified in each department.

4.The Practice

As part of higher education, the students of all engineering branches in the final or prefinal semesters are identified. The ADD-ON course best suited for the current scenario for each branch is chosen by the respective departments. The interaction with the industry experts gives first-hand information about the requirement of the industries. MoU is signed with an industry partner. The add-on courses are normally conducted for one week to ten days in the college campus and ADD-ON course certificate is provided to the students after completing the course successfully.

In the context of higher education:

ADD-ON courses help students in updating their knowledge and improving their competency, thus enabling them to appear for competitive entrance examinations for higher education with more confidence. The hands-on experience provided during the Add courses helps the students in solving practical problems more effectively in their higher education. Based on the feedback of the students, the following are the major constraints: (1) In the limited time available during the academic schedule, fitting in an extra course is a tedious process.

(2) As most of the students are from a poor financial background, fees become a constraint.

Evidence of success - ADD-ON Course	Academic Year	Number of students enrolled	Number of Students completed the course	No: of students placed	Success rate of ADD-ON courses
	2021 -22	122	122	63	51.64
	2020-21	126	122	15	12.30
	2019-20	134	134	47	38.52
	2018-19	329	325	71	58.20

5.Problems Encountered and Resources Required

Faculty and lab staffs have to invest time in setting up the lab and facilities and providing assistance for the conduct of the course from the college's end. The administration and the support staff are engaged in conducting the ADD-ON courses while other regular classes are going on, creating an additional load on the college and the staff members.

Resistance from the parents of the students to allow to join the ADD-ON course was another problem encountered, due to their financial constraints. The problem was solved through discussions and by making them aware of the benefits of the course.

Best Practice 2.

1.Title of the Practice

Finishing School

2.Objectives of the Practice

The objective of Finishing School is to impart relevant training to the final year students to make them

ready for campus placements. Training and practice sessions are given by experts in areas like communication skills, group discussions, extempore, aptitude test, resume preparation, how to face interviews, and other soft skills topics. Model interviews are also conducted by technical and HR teams from the industry.

3.The Context

This is a one week programme offered to selected students based on their academic performance. The students benefit immensely from this program. Students need to be prepared for campus placements when they reach the final year. Hence this program is conducted for the students at the beginning of the final year.

4.The Practice

To ensure the full involvement of the students, Finishing School is conducted as a residential program of one-week duration. Thus, students who have never stayed in hostels earlier will get an opportunity to experience the stay and mingle with other students. This will help in improving their social skills which will be required in the corporate environment.

Aptitude training is given to the students based on the patterns followed by various companies for their assessments.

Group discussions make the students confident to appear for entrance process of Higher Education in Management and the like. Model interviews give them an opportunity to familiarize themselves with the process and improve their confidence. One senior faculty member from the respective department also will sit on one of the panels (technical or HR) for each branch, so that they can take note of the observations about each candidate's responses and performance during the interview. Feedback is given after the interviews so that the students can improve their performance. Specific feedback, if required, is given one to one with those students who need to be given personal attention.

Various evening programs are also arranged which includes invited talks, tips on table manners and dining etiquette, formal dinner, cultural programs, etc. Computer labs are made available during the evenings to prepare/correct the resumes before appearing for the model interviews.

Placed students have also mentioned that the Finishing School program has helped them in securing campus placements.

Evidence of success - Finishing School	Academic Year	No of Students attended Finishing School	No of Students Completed Finishing School	No.of companies Come for interview	No of Students Placed from Finishing School	of s c s s
	2022-2023	117	108	5(Ongoing)	16 (Ongoing)	1
	2021-2022	164	159	18	63	3
	2020-2021	103	59	10	15	2
	2019-2020	192	177	19	47	2
	2018-2019	225	209	22	71	3

5. Problems Encountered and Resources Required

Most of the trainers and resource persons have to be hired from outside the institute. Experts on each topic are identified to engage different sessions. Some of the companies have their recruitment process very early and hence students have to attend the recruitment process of those companies before attending the Finishing School.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The distinctiveness of the Institute lies in its Innovation Centre which sheds light on the endless possibilities and opportunities the world of Innovation and Entrepreneurship offers. Innovation Centre shows its distinctiveness through diverse experimental approaches towards its activities, prioritizing student necessities over anything by working unrestrained to mold them through a series of workshops, training programs and boot camps. Under Govt. of India, MHRD Innovation Cell, the Institution's Innovation Council (IIC-MCET) was established, which focuses on providing a Startup Ecosystem for students to follow their path into the World of Innovation and Entrepreneurship.

- Women Empowerment through Entrepreneurship Development (WEED-MCET) intends to break the existent gender bias and broaden the understanding that entrepreneurship has no gender. WEED empowers young minds by enhancing them with the right set of skills & expertise. The Centre functions with financial support from Kerala Startup Mission, Govt. of Kerala.
- The Design Hub of the Innovation Centre offers a platform for the students to enhance their creative and artistic side. The Design Hub carries out in-house design work like posters, magazines, newsletters, brochures, etc.
- The Research Hub was established to bridge the void between institute and industry and improve problem-solving skills, and conceptualization, and develop a competitive edge among young innovators. It focuses on projects and research, thus helping to improve the practical knowledge of the students.
- Idea Café is a platform to brainstorm ideas and to improve the communication skills of the students. It is an initiative to stimulate young minds to think in varying dimensions.
- Intellectual Property Rights (IPR) Cell was established in order to enhance the patenting culture

among students and faculty. The Cell is responsible for identifying students' ideas from the grass root level and helping them to nurture the same to a patentable level. The Cell is closely associated with the Patent Information Council of KSCSTE, Govt. of Kerala.

- Technology Business Incubation Centre promotes/accelerates the innovation culture, supporting pre-incubation and incubation by connecting resources from internal and external sources. The Technology Business Incubation facility is accessible 24x7 to students, staff, and faculty of all disciplines and departments across the institution. A pre-Incubation facility will be available for the students who register their startups during their final year. An incubation facility will be available for the Alumni students of the Institution. Twelve startup companies were incubated in TBI MCET.

The Innovation Centre aims to develop an ecosystem for the student and faculty community where they can inculcate a culture of innovation and technology-driven entrepreneurship through a set of structured activities. The Innovation Centre focuses on churning out entrepreneurship skills in the students and helping them channel their goals to become versatile entrepreneurs. It also provides hands-on workshops, internships, and competitions to bring out the innate potential of students and make them agile and confident. The Innovation Centre provides consistent training through workshops, boot camps, hackathons, idea-pitching events, social outreach programs, and various other events to enhance the skill set and to ensure that the students and faculty are technically and ethically sound.

An important milestone in the development of the Innovation Centre is the foundation of Technology Business Incubation Centre (TBIC) in the self-financing engineering colleges category in Kerala (2007). Received AICTE Funding (2013). The National Science and Technology Entrepreneurship Development Board trained and certified the Faculty Coordinator. Hosted the flag launch of YES by Govt. of Kerala (2014). Hosted the first UN Certified Empretec Workshop in Kerala in association with Kerala Startup Mission (2015). Hosted Bootcamp under the support and guidance of Kerala Startup Mission (2015). Industry Institute tie-up with CII (2015). Formation of 'Know The Technology' scheme (2016). IIC MCET was established successfully in 2018.

The Innovation Centre acts as a benefactor for all aspiring entrepreneurs and provides them with monetary benefits and technical know-how regarding the establishment of student startups. It has helped in the growth of entrepreneurial culture in the institution which in turn helped the students to win accolades and recognition at both state and national levels.

Achievements

? Received a 5.0 Star Rating for the Innovation Performance Ranking 2019-2020 by the Ministry of Education, Govt. of India.

? Selected as the Mentor Institute as part of the Mentor-Mentee Program under MoE-Govt. of India in 2021-21 with funding assistance from MIC/AICTE.

? Chosen as one of the Best Performing Innovation and Entrepreneurship Development Centres of the state by Kerala Startup Mission for the period 2019-2021.

- Received IDEA GRANT for three projects in 2021 by Kerala Startup Mission.

? Second Runner-up in the Top Performer in Thiruvananthapuram category in Innovator's Premier League for the period of 2021-2022.

? Innovation Centre MCET was recognized as a Technology Business Incubator by Kerala Startup Mission in 2022.

File Description	Document
Appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

An active IEDC cell is working to enable students to transfer technology. A number of awards have been received by our IEDC cell. Kerala Start-up Mission has recognised the innovating IEDC of our institution as Technology Business Incubation (TBI). As the best practices, the institute offers an ADD-ON course to all students and a fully residential Finishing school to all eligible students. Human values and Professional Ethics are instilled through various programs such as charity visit, anti-drug campaigns, academic retreats and a well-formed code of conduct procedure.

Concluding Remarks :

Mohandas College of Engineering and Technology (MCET) was established in 2002 in a rural area in Anad panchayath about 20km away from the heart of the city. MCET affiliated to APJ Abdul Kalam Technological University (KTU) ensures the delivery of the KTU prescribed curriculum through well defined processes and effective procedures. Over the 20 years of its journey, this panchayath has developed a lot with the active participation of the students and the influence of the college. The college has developed a systematic Quality Assessment procedures and practices as per ISO format and IQAC requirements. The IQAC plays a role in the quality initiatives in all aspects of teaching, learning and evaluation.

The institute provides students by means of scholarships and freeships issued by the government and other non-government agencies. The Institution has an established student centric outcome-based teaching-learning process that includes regular classes for theory and tutorial sessions for problem solving, participative learning through workshops, seminars and industrial visits, and experimental learning from internships. College has a Central Computing Facility (CCF) with 350 personal computers connected to five high end servers with internet bandwidth of 220 Mbps. There are 21 Wi-Fi access points within the campus and a total of 19 ICT enabled class rooms, labs and seminar halls. Every year 3 National Level Conference are organised separately to publish the findings of UG projects, PG projects and faculty and researchers of the institution, named Colloquium, Prabandh and Techsynod. An international conference is also organized once in 5 years. The papers are published as proceedings of the conference with ISBN number.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p>2.1.2.1. <i>Number of actual students admitted from the reserved categories year - wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>116</td> <td>100</td> <td>89</td> <td>96</td> <td>111</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>73</td> <td>79</td> <td>59</td> <td>57</td> <td>84</td> </tr> </tbody> </table> <p>2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>116</td> <td>100</td> <td>89</td> <td>101</td> <td>125</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>116</td> <td>100</td> <td>89</td> <td>85</td> <td>109</td> </tr> </tbody> </table> <p>Remark : DVV has made the changes as per shared report by HEI.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	116	100	89	96	111	2021-22	2020-21	2019-20	2018-19	2017-18	73	79	59	57	84	2021-22	2020-21	2019-20	2018-19	2017-18	116	100	89	101	125	2021-22	2020-21	2019-20	2018-19	2017-18	116	100	89	85	109
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3.3.2	<p>Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years</p> <p>3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>92</td> <td>116</td> <td>176</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	0	0	92	116	176	2021-22	2020-21	2019-20	2018-19	2017-18																									
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2021-22	2020-21	2019-20	2018-19	2017-18																																					

0	0	56	101	124
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Remark : DVV has considered Publications with ISBN only.

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
64	75	54	18	40

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
5	58	25	14	22

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

4.4.1.1. Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
199.70	63.4	297.67	421.87	415.31

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
199.70	63.4	98.32	312.2	415.31

Remark : DVV has made the changes as per shared report in EP-4.2

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

- 1. Implementation of guidelines of statutory/regulatory bodies**
- 2. Organisation wide awareness and undertakings on policies with zero tolerance**
- 3. Mechanisms for submission of online/offline students' grievances**

4. Timely redressal of the grievances through appropriate committees

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. Any 3 of the above

Remark : DVV has select B. Any 3 of the above as per shared report by HEI.

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	3	13	58

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
1	0	3	13	57

Remark : DVV has made the changes as HEI's own certificate for sports and culture not to be considered.

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
12	0	35	43	47

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
09	0	29	36	26

Remark : DVV has made the changes as Events held on the same day to be considered as ONE event only.

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Answer before DVV Verification : D. Any 1 of the above

Answer After DVV Verification: C. Any 2 of the above

Remark : DVV has select C. Any 2 of the above as per shared report by HEI.

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of teaching staff / full time teachers year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>97</td> <td>110</td> <td>115</td> <td>132</td> <td>168</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>97</td> <td>110</td> <td>114</td> <td>132</td> <td>168</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	97	110	115	132	168	2021-22	2020-21	2019-20	2018-19	2017-18	97	110	114	132	168
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