Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY**
Name of the head of the Institution	**Basheer Ahmed**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**040-23280301**
Mobile no.	**9849455423**
Registered Email	**principal@mjcollege.ac.in**
Alternate Email	**director@mjcollege.ac.in**
Address	**8-2-249 to 267, Road No. 3, Banjara Hills**
City/Town	**Hyderabad**
State/UT	**Telangana**
Pincode	**500034**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Prof. Ashfaque Jafari**
Phone no/Alternate Phone no.	**04023280317**
Mobile no.	**9246292205**
Registered Email	**iqac@mjcollege.ac.in**
Alternate Email	**principal@mjcollege.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://mjcollege.ac.in/naac/aqar/Part-A-No3-NA.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://mjcollege.ac.in/naac/aqar/Part-A-No4-B.E%20Almanac%202019-2020.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B++**	**2.76**	**2020**	**11-Mar-2020**	**10-Mar-2025**

6. Date of Establishment of IQAC	**17-Oct-2019**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
National Conference on	**01-Mar-2020**	**130**

Technologies for Sustainable Ecosystem	3	
Hack Revolution Hackathon	19-Jan-2020 1	267
FDP on AI Applications in Power Electronic Systems	20-Jan-2020 6	95
FDP on Computational Intelligence: Techniques, Tools, and Applications	06-Jan-2020 6	110
Three Day International Conference on Recent Advances in Civil Engineering Infrastructure	16-Dec-2019 3	400

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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NA	NIL	2020 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View Link]
10. Number of IQAC meetings held during the year :	**1**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View Uploaded File]
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

? Celebration of Engineers Day 2019 by organizing awareness campaign titled Say No to Plastic, guest lecture titled Industry 4.0, technical quiz titled

Techniquiz ? Organizing Osmania University Inter College Lawn Tennis Tournament on 15Oct2019 and Osmania University Inter College Football Tournament from 2022 Jan 2020 ? Organizing a lecture by Dr. Prasad Raju, former director DST on funding opportunities in R and D on 2Dec2019 ? Developed and Implemented the framework for conducting online classes utilizing Google Meet platform ? Developed and Implemented the framework for online assessment for Internal (theory and laboratory)and external (laboratory) examinations

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Measures for strengthening of academia-industry through MoUs	Three MoUs Signed
R&D projects	Applied for three R&D project sunder RPS scheme of AICTE
Initiative for startups by IIC MJCET	Three startups incubated successfully
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Council	26-Feb-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	19-Feb-2020

16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	09-Sep-2019

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	MyFee Module: Maintains a record of students on roll and their fee payment history. It also generates bonafide certificate and transfer certificate.

	Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

As an affiliated institution, the curriculum is formulated and provided by the Osmania University through a process of detailed deliberations and discussions in Board of Studies and Faculty meetings. However, as an affiliated institution, MJCET exhibits flexibility in teaching content beyond the set syllabus to meet the demands of emerging technologies. Effective Curriculum Delivery is a function of the following parameters: 1. Planning 2. Teaching-Learning Process 3. Assessment Systems 4. Self-Learning Initiatives Planning: A three tier planning process is adopted: University Almanac, Institutional Academic Calendar and Departmental Academic Calendar. Due to the COVID-19 pandemic there was a paradigm shift from the conventional face-to-face instruction to online teaching. Hence, an urgent and careful planning was needed to mitigate the negative impact of pandemic on engineering education. MJCET organized a session viz. Techno-pedagogical Skills and Initiatives for Effective E-learning where the in-house professional team shouldered the onus to train its faculty to make use of online teaching effectively. Teaching-Learning Process: Before the Covid-19 lockdown MJCET held its classes in the conventional mode. However, the odd semester classes were conducted online since the lockdown in Telangana continued till July, 2020. The chalk-and-talk method was replaced by audio-visual classes via Google Meet. Day-to-day teaching learning process was driven by online tutorials, webinars, seminars, projects as-and-when needed apart from the regular online lectures. The course related materials were uploaded in Google classroom by the concerned faculty for easy access by the students. Assessment Systems: Attainment of COs and POs was assessed through a combination of direct and indirect assessment tools. A weightage of 40% is accorded to Continuous Internal Evaluation (CIE) and 60% to Semester-End Examination (SEE) for determining the CO attainment. The assessment of laboratory sessions is done on a continuous basis through well designed assessment rubric laying emphasis on different aspects of Bloom's Taxonomy. Due to pandemic the CIE was conducted online. The University exam (SEE) time was reduced from 3 hours to 2 hrs. Required changes were brought in the question paper pattern in terms of increasing the choice of questions. Self-Learning Initiatives: MJCET is a recognized local chapter of NPTEL. Students and faculty are encouraged and incentivized to get certified in relevant NPTEL courses. "Student Activity Centers", R & D projects, Innovation and Incubation Cell etc. inculcate self-learning in the students. MJCET has entered into an agreement with Coursera, an initiative taken during pandemic that benefitted around 5000 faculty and students of the college to get access to various courses free of cost for six months, starting from April 2020. In addition, students are also encouraged to design and develop prototype models which later can be taken up as start-ups. It also fosters various student chapters such as E-Cell, SAE, EWB, Robotics club, IEEE, CSI, ACM, ICI, Microsoft Student Society, IE(I), Orators' Club etc.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Nil	Nil	Nil	0	Nil	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanics of materials and structures	01/12/2019
BE	Elements of mechanical engineering	01/12/2019
BE	Mathematics-III(PDE, Probability&statistics)	01/12/2019
BE	IT workshop lab	01/06/2019
BE	Mathematical foundations of information technology	01/06/2019
BE	Distributed databases	01/12/2019
BE	Big data analytics lab	01/06/2019
BE	Network security and cryptography	01/06/2019
BE	Big data analytics	01/06/2020
BE	Global navigational satellite systems	01/12/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/07/2019
BE	Mechanical Engineering	01/07/2019
BE	Production Engineering	01/07/2019
BE	Electrical and Electronics Engineering	01/07/2019
BE	Electronics and instrumentation engineering	01/07/2019
BE	Computer Science Engineering	01/07/2019
BE	Electronics and communication engineering	01/07/2019
BE	Information technology	01/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled

CRT PROGRAM	17/06/2019	386
NPTEL Gender Justice and Workplace Security	01/07/2019	1
NPTEL Interpersonal Skills	01/07/2019	1
NPTEL Programming Data structures and Algorithms using Python	01/07/2019	7
NPTEL Programming in C	01/07/2019	25
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	71
BE	Information Technology	96
BE	Computer Science and Engineering	113
BE	Electronics and communication engineering	110
BE	Mechanical Engineering	120
BE	Production Engineering	42
BE	Electrical and Electronics Engineering	44
BE	Electronics and instrumentation engineering	38
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Muffakham Jah College of Engineering and Technology is affiliated to Osmania University and the university designs curriculum for the affiliated colleges. The senior teachers who are members of Board of Studies (BOS) also give inputs to revise the syllabus . A cumulative Analysis report of feedback obtained from the students, teachers, alumni, parents and employers was analyzed and suggestions given for overall development of the institution. The major reason behind carrying out this process is to know the synchronized prerequisite of industry, current scenario and opportunities in market for employability and

higher studies of the students. Feedback is summarized and analyzed by the committee with senior faculty members at departmental and institutional level. Students give their feedback subject wise about progress of course work and quality of teaching. They are discussed in departmental meeting to sort out appropriate action plan with the consent of head of the institution. The corrective actions are implemented to bring out the improvements in the class work and academic standards. Student feedback is considered for the purpose of faculty performance approval in order to improve teaching-learning methodology and overall quality of education. The opinion of the alumni is collected on regular basis through online and offline mode regarding the courses, syllabus, theoretical and practical knowledge from the industry point of view, professional skills and employability skills that are essential for the student. These opinions are reviewed and implemented to make the student as industry ready professional by the time of graduation. Alumni feedback guides the final year student to opt for higher studies overseas and to go for short term professional training programmes in the interested filed/domain. Institution always prefers to build strong alumni network and to bring the student community on to the alumni platform for the benefit of the students in the long run after graduation. Parent feedback is collected on regular basis regarding institutional functioning, availability of resources, access to students and evaluation of the course work. Institution always prefers to improve its infrastructure, performance and quality of teaching-learning process based upon the feedback of the stake holders and the benefits of which are imparted to student community to mould their career. The parents are satisfied with the syllabus design as it helps their ward to acquire knowledge, skills and get placed in a job. The teachers were satisfied that the course work is relevant and fulfills the industrial and social needs of the students. Majority of the course content was found to be appropriate. For some subjects teachers suggested that there should be more industry exposure and hence experts to be called from industry for conducting sessions as per the area of expertise to enrich the learning of students. The course content is delivered through collaborative learning, peer learning and assignments, quiz, group discussions and mini projects. The employers appreciated the students attitude towards learning, new skills and knowledge. The student communication skills, inter personal, intra personal and leadership skills where on par with their industry requirement. The students are recommended

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Civil Engineering	120	Nill	121
BE	Computer Science and Engineering	120	Nill	123
BE	Electrical and Electronics Engineering	60	Nill	60
BE	Electronics and Communication Engineering	120	Nill	120

BE	Mechanical Engineering	120	Nill	120
BE	Information Technology	120	Nill	123
BE	Production Engineering	60	Nill	46
BE	Electronics and Instrumentation Engineering	60	Nill	58
ME	Structural Engineering	18	Nill	18
Mtech	Computer Sciences and Engineering	24	Nill	23
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3162	178	138	17	25

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
180	174	75	61	6	7
[View File of ICT Tools and resources](#)					
[View File of E-resources and techniques used](#)					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Students and their mentors share responsibility for enabling productive and successful mentoring relationships. Both parties have a part to play in the overall outcome of mentoring. For graduate students, a mentor is someone who serves as a guide throughout their academic period. Mentors provide both professional and personal advice in transforming into a successful engineer, with a goal of adopting sustainable technologies for overall development of society. Mentors give constructive guidance on writing, teaching and other elements of career development. They can serve to help students balance professional goals with their personal lives or give emotional encouragement during challenging times. The students get moral support during periods of emotional stress. The objectives of the SMS include: • To help undergraduate fresh students understand the challenges and opportunities present in the Institute and develop a smooth transition to campus life. • To counsel academically weak undergraduate first year students and to play and important role in helping troubled students cope with academic, extra-academic and personal problems. • To provide positive role models to first year undergraduate students in the institute. • To proactively try to identify problems of the general student populace and to bring them to the notice of the concerned authorities. • Advising and encouraging students in participating conferences ,technical events add publishing papers in journals. In order to achieve the goals in SMs 1:10

mentor ratio is adopted .The same faculty will be guiding the students throughout their undergraduate program. This helps in confidence building among the students and overall development. The students advised to provide innovative solutions to the problems they encounter. The college also appointed a psychologist for counseling students undergoing severe stress on account of academic or other reasons .The parents are informed about the state advised necessary medical attention. Program implementation will be in following phases: Phase I: Selecting faculty mentors to first year students. Phase II: Interaction of first year students with the mentors and identifying strengths and weaknesses of the mentees. Phase III: Forming whatsapp group, if possible, to keep contact among the group. Phase IV: Periodic meeting of the mentees with the mentors and remedial training of the learners, training students to take up higher skills. Phase V: Obtaining feedback from the first year students at the end of the session. Evaluating students performance after every internal exam and identifying strength and weakness. Role of Faculty Mentor (FM) • • Faculty Mentor shall meet respective batches at least twice in a year. • Personal counseling is the main role played by FM. • FM shall certainly meet students of their batches in the first meeting and discuss general matters and make them at ease. • Subsequently, they shall meet students after the 1st and 2nd semester examinations and discuss their performance and comfort level. • FM shall counsel the students with difficulty in adjusting to the environment. The responsibility of each mentor extends to the entire three years for the batch

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3340	167	1:20

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
180	180	0	0	45

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Ishrat Meera Mirzana	Professor	Faculty Award for Excellence Teaching in Higher Education presented by DK International Research Foundation
2019	Dr. Arifuddin Sohel	Professor	Outstanding Branch Counselor and Advisor Award
2019	Dr. Kaleem Fatima	Professor	1. Elite Gold (Top 1) (Switching theory and Logic Design)
2019	Dr. Kaleem Fatima	Professor	2. Elite Gold (Top 1) (Microprocesors and interfacing)
2019	Mrs. Nazeerunnisa	Assistant Professor	EliteGold(Principles of Modern CDMA/MIMO/OFDM Wireless Communications)

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
ME	741,742,743,744,765	I Sem	30/01/2020	15/02/2020
BE	732,734,739,735,736,738,733,737	I Year / I Sem	14/12/2019	15/02/2020
BE	732,734,739,735,736,738,733,737	I, II Sem / I year	12/12/2019	13/12/2020
BE	732,734,739,735,736,738,733,737	IV Year / VII Sem Year / VI Sem	18/12/2019	15/02/2020
BE	732,734,739,735,736,738,733,737	III Year / VI Sem	07/01/2020	15/02/2020
BE	732,734,739,735,736,738,733,737	III Year / V Sem	19/12/2019	15/01/2020
BE	732,734,739,735,736,738,733,737	II Year / IV Sem	08/01/2020	15/01/2020
BE	32,732,739,735,736,738,733,737	II Year / III Sem	20/12/2019	15/01/2020
BE	732,734,739,735,736,738,733,737	I Year / II Sem	31/12/2019	15/02/2020
BE	734, 734,739,735,736,738,733,737	I Year / I Sem	08/01/2020	15/02/2020

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The reforms in the CIE system as implemented by the institution are discussed below under the heads of Theory Courses, Laboratory Courses, Seminars, and Projects. Theory Courses: Affiliating university guidelines are strictly followed with respect to Continuous Internal Evaluation (CIE) system at institution level. Two internal tests are conducted per semester as per university almanac. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar which is prepared based on the university academic calendar. One week before commencement of internal examinations, time table is displayed keeping in view the common subjects across all departments. Question paper is set according to Bloom's Taxonomy norms with question CO mapping in accordance

to OBC norms. There are 4 to 6 Course Outcomes (COs) for each subject. The first CIE question paper is prepared in such a way that 2 to 3 COs are attained, Second CIE another 2 to 3 COs are attained. The COs can also be attained by assignments and tutorials. Two long answer questions and two short answer questions are tested in Bench Mark Test. University follows Choice based credit system (CBCS) and AICTE Model Curriculum. The marks allotted for CIE are 30 and for University semester end examination are 70. Out of 30 marks allotted for CIE 20 are for test and 10 marks are allotted for assignments/tutorials/quizzes. Average marks of two CIE examinations are considered for final submission to university. The valuation process has to be completed as per the dates mentioned in the academic calendar. The marks are awarded based on the key prepared. Finally the marks awarded are entered in assessment matrix and submitted to HOD and displayed on the respective departmental notice boards. Students are allowed to go through the valued internal answer scripts and doubts regarding evaluation are cleared. Internal Test performance is intimated to the parents and slow performers are identified and counseled accordingly. However, due to pandemic and lockdown the second internal exam of second semester was conducted in online mode. Laboratory courses: Internal assessment for laboratory courses is done under two different rubrics: Programming laboratory and Non-Programming Laboratory. In the programming laboratory the experiments conducted by the students are evaluated according to writeup, process development, and coding, compiling, debugging and process validation. In the Non-Programming the experiments conducted by students are evaluated according to observations, calculations, results, graphs and discussion of results. Due to pandemic the internal assessment of the second semester was based on online viva and record submission. Seminars: The seminars are conducted for final year students and evaluated according to the seminar assessment rubric which consists of written report, presentation slides and communication skills. Due to pandemic online seminar was conducted for few students in online mode. Projects: The projects of final year students are assessed based upon project assessment rubric which consists of following parameters: two scheduled reviews, methodology, analysis, design, planning, results, observations and project write-up. However, due to pandemic viva-voce was conducted online.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The institute has a well-defined basic operating procedure to develop the academic teaching plans and it follows a precise academic calendar during the academic year. Every academic year consists of two semesters. Each semester is to be of 16 weeks. In the beginning of the academic session, the students are apprised of academic calendar and notify them to adhere to it in a time bound manner. The academic calendar is uploaded on college website and displayed on notice boards and at strategic locations. The academic calendar shows the start and end dates of each semester stating various activities to be conducted, the internal evaluation schedule and the tentative schedule of external evaluation. Every teacher follows a strict agenda that is discussed and approved by the head of their respective department. This also allows the teachers and the students to space out their teaching and learning and regular assessment of the same. Each Course and that respective Teacher of it has his /her own pattern of Internal Examination like Practical, Group discussions, Seminar, Quiz, Projects etc. As per their teaching plans, each teacher takes a liberty to schedule their own internal subject's concurrent evaluation. Academic activities are always given priority and all other activities are performed without disturbing the class work. The institute prepares the Academic calendar by understanding the PO's and CO's so that the activities are planned accordingly. Academic Calendar lays down a very strong foundation of the academic delivery. It further propagates the Institute's vision and mission. Preparation of the

Academic Calendar begins well before the commencement of the academic year. The Academic calendar is designed in line with affiliating Osmania University's Academic calendar and takes into consideration the holidays and vacation. Regular staff meetings are conducted to ensure adherence to schedule given in the academic calendar. In case of any unusual or unscheduled holiday or repeated non-working of a particular day of a week in the semester, compensatory classes are kept on Saturdays, which are also mentioned in the Academic calendar. The unscheduled holidays are compensated on Second Saturdays. The institute has built in mechanisms to ensure syllabus completion and conduct of CIE within the time frame. Remedial sessions are conducted on weekdays and on Sundays also. The Academic committee ensures strict implementation of the Academic Calendar by monitoring activities. Implementing gaps are reviewed periodically. The status of checkpoints and gap identified in monitoring are conveyed to the Director for necessary implementation. Only head of the institution can incorporate minor changes in academic calendar which he may deem fit considering the unforeseen circumstances. Due to strict adherence with the academic plan, the institute seldom faces difficulties in completing the curriculum within the planned time frame of the calendar. However, due to pandemic university and college almanac were not adhered in the end part of second semester but academic activities were carried out based on the instructions received from university from time to time. Classes and exams were conducted in online mode after the implementation of lockdown.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://mjcollege.ac.in/naac/aqar/Part-B-2.6.1.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
742	Mtech	Computer Science and Engineering	20	20	100
741	ME	Structural Engineering	13	13	100
739	BE	Electronics and Instrumentation Engineering	50	44	88.00
738	BE	Production Engineering	49	40	81.63
737	BE	Information Technology	113	107	94.69
736	BE	Mechanical Engineering	137	124	90.51
735	BE	Electronics and Communic	136	118	86.76

734	BE	Electrical and Electronics Engineering	60	56	93.33
733	BE	Computer Science and Engineering	134	122	91.04
732	BE	Civil Engineering	134	121	90.30
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://mjcollege.ac.in/naac/aqar/Part-B-2.7.1.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nill	0	Nil	0	0
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
HALF DAY WORKSHOP ON IPR AND INNOVATION	MJ-IIC	26/11/2019
Product Design Workshop with Chatbot	T-signature MJCET MJ-IIC	26/12/2019
One Week Skill Development Program (SDP) on Digital System Design	MJ-IIC	30/12/2019
Workshop on National Innovation and Startup Policy"	MJ-IIC	15/01/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Nil	Nil	Nil	Nill	Nil
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement

| Nill | MJ HUB | Sultan ul Uloom Education Society | Nill | Nill | Nill |

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	4	1

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NA	0

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	1	Nill
International	IT	2	Nill
International	Mech	2	Nill
International	EEE	4	0.5
International	ECE	2	0.7
International	Basic Sciences and Humanities	4	1.03

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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Basic Sciences and Humanities	2
IT	3
Mech	3
Civil	78
CSE	15
ECE	6
EEE	10

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Structural, optical	Stalin S., Gaikwad	Ceramics International	2020	24	Muffakham Jah	24

features and gamma ray shielding properties of Bi2O3-TeO2-B2O3-GeO2 glass system	D.K., Samee M.A., Edukondalu A., Ahmmad S.K., Joshi A.A., Syed R.					College of Engineering and Technology	
Local binary patterns based on directional wavelet transform for expression and pose-invariant face recognition	Muqeet M.A., Holambe R.S.	Applied Computing and Informatics	2019	18	Muffakham Jah College of Engineering and Technology	18
Detection and interception of black hole attack with justification using anomaly based intrusion detection system in MANETs	Mahin S.H., Taranum F., Fatima L.N., Khan K.U.R.	International Journal of Recent Technology and Engineering	2019	2	Muffakham Jah College of Engineering and Technology	2
Content based image retrieval based on domain knowledge acquisition	Mirajkar F.D., Fatima R., Qadeer S.A.	International Journal of Innovative Technology and Exploring Engineering	2019	0	Muffakham Jah College of Engineering and Technology	0
QoS-based routing for free space optical mobile ad hoc networks	Fauzia S., Fatima K.	International Journal of Vehicle Information and Communication Systems	2020	0	Muffakham Jah College of Engineering and Technology	0
Design	Nazeerun	Journal	2020	0		0

of channel feed-back codebook and addressing power leakage problem in mm- wave massive MIMO system with lens antenna arrays	nisa, Tatineni M., Shahid Ali Khan M., Hafeez S.	of Critical Reviews			Muffakham Jah College of Engineering and Technology	
Engineers for the future	Mirzana I.M., Lal R.	Journal of Engineering Education Transformations	2020	0	Muffakham Jah College of Engineering and Technology	0
Design and development of 30 kVAr DSTATCOM for reactive power compensation in an 800 kW radial distribution system	Rafi K.M., Prasad P.V.N.	ARPN Journal of Engineering and Applied Sciences	2020	0	Muffakham Jah College of Engineering and Technology	0
An ultra low power CMOS based temperature to digital converter in 0.045 μm technology	Unnisa R., Chari K.M.	Microprocessors and Microsystems	2020	1	Muffakham Jah College of Engineering and Technology	1
Spectroscopic studies on Li2O–MgO–Bi2O3–B2O3 glasses	Purnima M., Stalin S., Edukondalu A., Samee M.A., Ahmmad S.K., Rahman S.	Chinese Journal of Physics	2020	3	Muffakham Jah College of Engineering and Technology	3
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Spectroscopic studies on Li2O–MgO–Bi2O3–B2O3 glasses	Purnima M., Stalin S., Edukondalu A., Samee M.A., Ahmmad S.K., Rahman S.	Chinese Journal of Physics	2020	7	3	Muffakham Jah College of Engineering and Technology
An ultra low power CMOS based temperature to digital converter in 0.045 μm technology	Unnisa R., Chari K.M.	Microprocessors and Microsystems	2020	Nill	1	Muffakham Jah College of Engineering and Technology
Design and development of 30 kVAr DSTATCOM for reactive power compensation in an 800 kW radial distribution system	Rafi K.M., Prasad P.V.N.	ARPN Journal of Engineering and Applied Sciences	2020	Nill	0	Muffakham Jah College of Engineering and Technology
Engineers for the future	Mirzana I.M., Lal R.	Journal of Engineering Education Transformations	2020	3	0	Muffakham Jah College of Engineering and Technology
Design of channel feed-back codebook and addressing power leakage problem in mm- wave massive	Nazeerunnisa, Tatineni M., Shahid Ali Khan M., Hafeez S.	Journal of Critical Reviews	2020	Nill	0	Muffakham Jah College of Engineering and Technology

MIMO system with lens antenna arrays						
QoS-based routing for free space optical mobile ad hoc networks	Fauzia S., Fatima K.	International Journal of Vehicle Information and Communication Systems	2020	Nill	0	Muffakham Jah College of Engineering and Technology
Content based image retrieval based on domain knowledge acquisition	Mirajkar F.D., Fatima R., Qadeer S.A.	International Journal of Innovative Technology and Exploring Engineering	2019	Nill	0	Muffakham Jah College of Engineering and Technology Muffakham Jah College of Engineering and Technology
Detection and interception of black hole attack with justification using anomaly based intrusion detection system in MANETs	Mahin S.H., Taranum F., Fatima L.N., Khan K.U.R.	International Journal of Recent Technology and Engineering	2019	Nill	2	Muffakham Jah College of Engineering and Technology
Local binary patterns based on directional wavelet transform for expression and pose-invariant face recognition	Muqeet M.A., Holambe R.S.	Applied Computing and Informatics	2019	Nill	18	Muffakham Jah College of Engineering and Technology
Structural,	Stalin S.,	Ceramics Internatio	2020	7	24	Muffakham

optical features and gamma ray shielding properties of Bi2O3-TeO2-B2O3-GeO2 glass system	Gaikwad D.K., Samee M.A., Edukondalu A., Ahmmad S.K., Joshi A.A., Syed R.	nal				Jah College of Engineering and Technology

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	64	Nill	Nill
Presented papers	96	Nill	Nill	Nill
Resource persons	1	3	Nill	Nill

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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
WE CANNOT BUILD OUR OWN FUTURE WITHOUT HELPING OTHERS BUILT THEIRS	Computer Science Society of India	1	20
An Awareness Session on Women Safety,Cyber Crimes and Street Sexual Harassment	Telangana state police	5	100
Discussion on union budget 2020 and Q A with students	AICC research Department of Telangana	5	1000
Importance significance of abrogation of Article370 discussion	Jan Jagaran Abhiyaan	2	5
Airtel Marathon	Bharti Airtel Telecommunications company and EWB	2	45

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Airtel Marathon	invaluable support	Bharti Airtel	45
EWB Activities	commendable presentation	Engineers Without Borders	12
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Women Empowerment	Nill	NATIONAL SCIENCE DAY- ROLE OF WOMEN IN SCIENCE AND TECHNOLOGY	2	155
Women Empowerment	Nill	Safety in our hands Womens Day Campaign Speaker : Hon'ble Justice Sri. G Chandraiah, Former Justice of High Court, A.P and chairman, Telangana State Human Rights Commission	2	190
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Nil	Nil	Nil	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
internship	internship	CYBERSOFT SYSTEM(I) PVT .LTD	01/06/2019	29/06/2019	GANDHAM JABILLI

internship	internship	HAL	01/06/2019	29/06/2019	Shagufta Hafeez
internship	internship	Doordarshan	01/06/2019	29/06/2019	Mohammed Mannan Hussain
internship	internship	ECIL	01/06/2019	29/06/2019	SANA KAUSER
internship	internship	BSNL RTTC	01/06/2019	29/06/2019	MOHAMMED ABDUL HAQ
internship	internship	Prasar Bharti	01/06/2019	29/06/2019	Syed Raquib Shareef
internship	internship	ESCI	01/06/2019	29/06/2019	Syeda Ifra Maheen
internship	internship	BHEL	01/06/2019	29/06/2019	SYED MOHAMMED ARSHIL RIAZ
internship	internship	South central Railway	01/06/2019	29/06/2019	K.spoorthi
internship	internship	drdo	01/06/2019	29/06/2019	MUNAZZAH JABEEN
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Entuple Technologies	02/12/2019	Joint Projects, Research Participation and Collaboration, Student internship, workshops and seminars	11
India Matters Foundation	25/01/2020	Student participants in activites, workshops and seminars	0
Tech Next Lab (TNL)	20/01/2020	Joint Projects, Research Participation and Collaboration, Student internship, workshops and seminars	3
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year	
Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
119.56	104.5

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Inflibnet SOUL Software	Fully	2	2001

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	62761	13777767	417	161944	63178	13939711
Reference Books	5727	1198066	18	6748	5745	1204814
e-Books	7500	Nill	45	Nill	7545	Nill
Journals	122	7038786	122	349880	244	7388666
e-Journals	474	19226530	474	1458114	948	20684644
CD & Video	2947	Nill	397	Nill	3344	Nill
Others(specify)	5106	Nill	338	Nill	5444	Nill
Others(specify)	Nill	13570	Nill	Nill	Nill	13570
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nill

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1086	704	345	30	120	56	176	120	0
Added	0	0	30	0	0	0	0	0	0
Total	1086	704	375	30	120	56	176	120	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

120 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Nil	Nill

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
352.9	283.5	161.4	158.72

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The College has well established procedure of maintaining and utilizing physical, academic and support facilities. Physical Facilities: Classrooms, Tutorial Rooms and Seminar Halls: Before commencement of each semester, Head of the Department and Class In-charges inspect the class rooms, tutorial rooms and Seminar Halls to check out the adequacy and state of the furniture, boards, projectors, tube lights, fans, etc. and make sure all the facilities are in good condition. Laboratory and Workshop Facilities . Each Laboratory is managed and maintained by a faculty in-charge associated by laboratory assistant / Programmer / Technician / computer operator. Periodic preventive maintenance is conducted. Annual proposals for purchase of new equipments, repair and maintenance of available equipments are prepared by the concerned lab in-charges and submitted to HOD. The Head of the institution after receiving the proposals from all the departments calls the Purchase Order Committee meeting for their approval. After purchase and installation, the details of new purchases are recorded in the stock registers of respective Labs. Advanced equipment for R D work is also procured as and when required. Computer Lab: All ICT facilities are checked routinely by the concerned in-charges and any repairs and maintenance carried out as and when required through AMC service provider. Academic Facilities: The Institution has Library at two levels: i. Institution Library ii. Department Library Institution Library: It has with over 17000 titles and 63000 volumes and subscription to 4 data bases. At the end of each year, all Faculty submit their requirement of Books for the next

Academinc Year to HOD. The HOD consolidates the Department Requirement and submits to the Central Library Committee . The Central Library Committee recommends the purchase of new editions, and number of volumes. In the annual meeting of Central Library Committee, these recommendations are finalized. Printed journals and magazines are kept in the reference section where the students can read and take photocopies. 24 Desktop systems with 1MBps internet facility available are maintained by AMC. Department Library: Each department library has limited number of titles and volumes for the benefit of faculty and students. Support Facilities: The Institution has a Physical Department and has several clubs as Orators Club, Robotics Club. Most clubs are administered by the students only, with the support of Management for resources and Faculty to be successful technically in their projects. The Physical Director is responsible for purchase and maintenance of sports facilities and equipments. Facilities for Physical Health and Personal Well-Being of Staff and Students: Institution provides various other services / facilities for the students and staff members which are as follows: • RO Water Treatment Plant and water coolers • Fire fighting and Fire Alsarm System • Banking and ATM facility . • Stationary Shop • Vegetarian and Non-Vegetarian Canteens • Auditorium • Dispensary . • Mosque • Pest control • Campus Plumber electrician . • 320 KVA and 62.5 KVA generators Student Activity Center to carryout out any student activities.

https://mjcollege.ac.in/naac/aqar/Part-B-4.4.2.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	SUES Employees 50 Tution Fee concession scheme	12	660000
Financial Support from Other Sources			
a) National	1. Post matric scholarship State Government Fresh renewal for Minority 2.Post matric Scholarship state government fresh renewal for EBC,SC,ST,BC 3. Merit Cum means Scholarship central government fresh and renewal	1867	161580000
b)International	Nill	Nill	Nill
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Personal Counselling by	05/08/2019	3391	All Faculty,MJCET

Faculty Counselling			
Computer Assisted Language Learning Lab	07/10/2019	845	Faculty from English Dept
Remedial classes	05/11/2020	42	Faculty from English Dept
Soft Skills Development	04/04/2019	353	Time Institute
Career Counselling	04/04/2019	353	Time Institute
Guidance for Competitive Exams	04/04/2019	353	Time Institute
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Campus recruitment training	Nill	712	Nill	248
2019	Regular Counselling by Faculty	353	Nill	68	Nill
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Zemosa Labs,Deloitte,Value labs,Hitachi consulting services,Infosys,X-IT,Nisum consulting Pvt	1245	143	DXC Technologies,Impetus solutions ,Noor Consulting, INKWALL, TCS ,Wipro,EPAM, NCR Corp	546	105

Ltd,Innovacx tech Lab Pvt Ltd, Amazon, Service Now					

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	2	B.E	MED	MJCET	M.E CAD/CAM
2019	8	B.E	CED	MJCET	M.E Structural Engineering
2019	3	B.E	EEE/EIE	MJCET	M.E Power Electronics systems
2019	2	B.E	ECE	MJCET	M.E Digital systems
2019	8	B.E	CSE/IT	MJCET	M.E CSE

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GRE	12
GATE	12
TOFEL	2
Any Other	4

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
NIL	NIL	Nill

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5.3 – Student Participation and Activities

5.3.1 – 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	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold Medal	National	1	Nill	160416738049	Mohammad Abrar Hussain

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institution elicits the support of its students along with other stake holders in the functioning of various academic and administrative bodies. The student members of these bodies participate in brain storming sessions and formal meetings called for formulating strategies for the overall curricular, co-curricular and extra-curricular development of the students. Student council There is no formal student council in the college. However, there are several other non-elected bodies which involve student's participation in academic and social activities. The Student Edification Cell is one such body which is involved in the academic and social development of the student community. Members of the cell are actively involved in co-curricular talks, anti-ragging programs, and various other addiction and gender discrimination awareness activities. Academic and Administrative Bodies Involvement of students in some of the academic and administrative bodies is presented below. Department Advisory Board: The Advisory board of each department comprises of representatives of all stake holders like society office bearers, principal, head of the department, senior staff members, parents, alumni personnel from industry, and students. It meets biannually to discuss the state of art areas that can be included in the syllabi. The outcome is proposed to the university Board of studies for the syllabus revision. IQAC: The IQAC has 4-6 student nominees on the committee in order to have representation from all stakeholders. The student members get an opportunity to provide first hand inputs on their needs during academic discussions pertaining to quality improvement. Library Committee: The library committee is formed by the group of two students from every section, along with the department faculty in-charge, the heads of respective departments, Principal and the Librarian. It meets once in a semester to discuss about the improvements to be made in the library facilities and recommends books, journals to be procured. A list of such requirement is prepared and forwarded for approval to authority concerned. Anti-raging committee: The institution has an active anti-ragging committee which consists of faculty, staff and four students. The committee prevents curbs and reports ragging issues to the authorities if necessary. The committee designs and makes available anti-ragging awareness related material. It works in coordination with a number of squads that are formed for on campus and off campus vigilance, during on duty and off duty timings. The squad can conduct enquiry into any incident. They ensure display of posters at various places like notice boards, corridors, library, canteen, sports lounge, bus stop and any other prominent spaces. Women's Grievance and redressal Cell: The Cell has members from staff, and one girl student member from each department. It meets monthly to discuss the issues brought forth and ensure that all the problems of women are effectively redressed in the college. Grievance and redressal committee for SC /ST: The committee meets once in a month to address the issues and it is authorized to take all possible measures in consultation with the head of the institution so that all the SC/ST student and staff related problems are aptly addressed.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The MJCET Alumni Association (MJCETAA) was established in year 2001 vide Ref No: 4036/2001 with the office of the Registrar of Societies, Hyderabad. The Alumni Association provides a common platform for the interface between Alumni and Current students and faculty of the college. The Aims and Objectives of Alumni Association are as follows. ? To help materialize the vision of the college. ? To reach out to all the alumni of MJCET and bring them under the

folds of MJCET Alumni Association. ? To extend welfare measures to the deserving students by the way of scholarships based on merits. ? To organize talk on career opportunities by eminent personalities in their respective fields. ? To facilitate the Alumni and staff who have excelled in performance in their areas of operations. The activities of the MJCET Alumni Association organizes two big events every year.

5.4.2 – No. of enrolled Alumni:

2107

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Four webinars were conducted by Alumni of MJCET who are well established in their respective fields during the lockdown period so that the current students can benefit from their experience. Webinar 1: Title: Electronic Design and Career Opportunities Date : 11 th July 2020 Speakers:Mr. Hannan , Mr. Humza, Mr. Mumtaz Webinar 2 Title: Resume Writing and Optimizing Linkedin Profile Date: 8 th Aug 2020 Speaker: Mr. Mohd Ashfaq Webinar 3: Title: International Career Opportunities in Light Design Date 29 th Aug 2020 Speaker: Mr.Mohd Yaseen Ali Webinar 4: Title: Opportunities for young women Engineers Date : 12 th Sept 2020 Speakers: Ms.V.Megha, Ms.Sandhya Khan, Ms.Neha

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Participative management often followed and the employees have actively involved in framing as well as the implementation of various academic and administrative responsibilities. Hence, the management represents collective decision making which involves the Director, Heads of the Departments, Coordinators, Laboratory Incharges and section Incharges. The faculty and staff are treated as facilitators who deal directly with the students and meet their needs. Decentralization in functioning is emphasized by the administrative structure consisting of Boards of the Governors at the helm of the hierarchy, followed by the Governing Council at the college level. In most instances, a bottom-up approach of administration is followed, wherein the inputs come through faculty and non-teaching staff meetings held periodically to discuss matters related to academics, administration and infrastructure development augmentation. The inputs from the departmental meetings are placed by the respective heads in the HODs meetings and the decisions taken are put forth in the Governing Council which recommends them for approval of the BOG. Mentoring System: The online mentoring system developed by the CSE faculty of the institution is a good example of decentralization and participative management. The traditional student counseling and the mentoring system was in force till 2016-2017. The institution began preferring a paperless system to avoid unnecessary usage of paper to conserve resources. By the end of 2017, faculty members began advocating the introduction of an online counseling system to improve effectiveness and reduce paperwork. The inputs of the faculty were placed in the HODs meeting by the Heads of the Departments. After taking into consideration all the aspects, a collective decision was taken to develop a mentoring portal to make the process online and transparent. The online mentoring portal was launched in 2017. The database consists of student details like name, contact number, e-mail address, parents contact number, mentor-student mapping etc. The attendance data and CIE data is downloaded to the

portal periodically. The mentors are alerted about the shortage of attendance and low scores in CIE through SMS. Using the portal, the mentors inform the parents and fix up a meeting if required. Details of all the activities and updates on the parent-mentor meeting are logged in the portal and can be retrieved as and when required. Because of pandemic during the year 2019, the classes were conducted through Google Class room and the teaching and learning process, assignments and assessment was done through online mode. The subject feedback was taken through Google forms. Online mentoring, online internal exams were smoothly conducted by the internal exam committee.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The Boards of Studies regularly revise and update the syllabus (once in 3 years) in accordance with the recommendations of AICTE. Besides, revising the syllabi, an emphasis was made to add the relevant subjects which are important for various entrance examinations are also taken into account so as to empower the students to compete in the exams. AICTE-CBCS curriculum for Undergraduate degree courses in Engineering Technology is a result of thoughtful deliberations at various stages of dedicated and specialized experts. In the Year 2019-20 due to rise in COVID-19 cases, the BOS meetings scheduled with the affiliated colleges have conducted on online platform for deciding the Curriculum for 2nd,3rd and 4th years. The following was the definition for credits. 1 Hr. Lecture (L) per week 1 credit 1 Hr. Tutorial (T) per week 1 credit 1 Hr. Practical (P) per week 0.5 credits 2 Hours Practical(Lab)/week 1 credit A range of credits from 150 to 160 are required for a student to be eligible to get Under Graduate degree in Engineering. For ME(CAD/CAM) total of 68 Credits are required for the eligibility of Master Degree.
Teaching and Learning	Teacher Quality: The College takes pride in its highly qualified and committed teaching faculty. Most of the Faculty at MJCET are having Ph.D's. The Teacher Student Ratio is maintained as 1: 20. Access to computers and internet is provided to all the teachers. Teachers use Information Communication Technology (ICT) to keep themselves

	abreast of the latest developments in their subject. During this pandemic, taking online classes was encouraged, teachers and students easily adapted to the new change. The ICT has helped the teachers a lot in this aspect. Teachers employ various innovative methods in the teaching-learning process. Some of the modern teaching methods used in the classroom are, Overhead projections, power point presentations, models, demonstrations, internet resources, computer simulations. During the COVID 19 pandemic, the teachers successfully adopted for online classes towards the end of the academic year through Google classroom.
Examination and Evaluation	Due to COVID 19 pandemic, as per the Osmania University directions, all the affiliated colleges have decided to conduct the internal exams online for the benefit of both students and faculty. MJCET has planned to conduct the II internal tests of B.E. II, IV and VI semester on 'Google Classroom' platform. This decision is backed by the fact that the effort put in by the institution in creating official email IDs of all students and conducting online classes using 'Google meet' platform easily dovetails into the 'Google Classroom' platform for conduct of online internal tests. Since it was for first time for the students taking an online test of this nature, a practice test was conducted for improving their comfort level with the online test ecosystem. THE ONLINE QUESTION PAPER PATTERN IS AS FOLLOWS PART – A a. It consists of 6 multiple option questions for a total of 6 marks b. Each question carries one mark c. All questions are compulsory d. Prior to submission one can change the options as many times as he/she wish e. Once the submit button is pressed one cannot make any further changes PART – B a. It consists of 4 descriptive type questions. Answer any two of the 4 questions. Each question carries 7 marks b. These questions have to be handwritten on A4 size paper During the course of a semester, which is generally of 90 working days, a student is evaluated in the following manner: 1. Students are given a minimum of two assignments by the faculty member, which they are required submit on

	specified dates. These assignments carry marks which contribute to the total obtained for that subject. The dates for submission of assignments are defined in academic Calendar. 2.Based on I Internals, II Internals and the submission of Assignments, the faculty will evaluate the students and submit the final internal marks for 30 marks. 3.Osmania University will conduct the Semester external exam for 70 marks. 4.The Examination Committee shall ensure proper organization of examinations and test including moderation, tabulation and declaration of the results.
Research and Development	In year 2019, 33 project proposals were submitted from various departments seeking R D funding. Out of which, fifteen projects of total amount Rs.8,40,915/- (Phase -I) were approved for funding after review on 26th October, 2019. Patents Patent Granted A patent has been granted to MJCET for an invention titled SOLAR POWERED SPINNING WHEEL for the term of 20 years from 21st of October, 2014 in accordance with the provisions of the Patent Act, 1970. Date of Patent Grant 30/8/2019 Patents Published A patent has been published on 17/01/2020 on the Government website of Indian Patent Office for Patent Application titled METHOD FOR DETECTING OPTIMAL LOCATION AND COORDINATED CONTROL OF DSTATCOM IN A RADIAL DISTRIBUTION NETWORK. A patent has been published on 03/01/2020 on the Government website of Indian Patent Office for Patent Application titled A PNEUMATIC QUADRUPED ROBOT AND A METHOD OF PREVENTING ACCIDENTS THEREOF. A patent has been published on 03/01/2020 on the Government website of Indian Patent Office for Patent Application titled PROCESS AND SYSTEM FOR EFFICIENT BIODIESEL PRODUCTION.
Library, ICT and Physical Infrastructure / Instrumentation	The Muffakham Jah College of Engineering and Technology library is spread over an area of 1000 Sq.m. The library has a rich collection of books, Journals for all the streams of Engineering and Technology. The Library is having all modern infrastructure structure facilities with reading room capacity of 168 seats. The Digital Library is having 25 IBM work stations and connected with 1 MBPS Internet

	facility. The Library is having more than 52,258 volumes of books and subscribing 125 printed journals and magazines. The Library is subscribing the AICTE-INDEST consortium online E-Journals databases like IEEE, ASME, ASCE, Science Direct and providing them through the Digital Library and campus wide network to all the students and staff. All the Library operations are automated using the SOUL software. The Library purchased E-Lectures, 135 video lectures and 120 web courses from NPTEL, IIT, Madras and providing them through the Digital Library and campus wide network to all the students and staff. MJCET use a diverse set of ICT tools to communicate, create, disseminate, store, and manage information and has also become integral to the teaching-learning interaction, through such approaches as replacing chalkboards with interactive digital whiteboards, using students' own smart phones or other devices for learning during class time, and the "flipped classroom" model where students watch lectures at home on the computer and use classroom time for more interactive exercises. During pandemic, for the smooth running of online classes the college provided web cameras, writing tablets and all in one computer with inbuilt camera for the conduct of classes and assessment. On the infrastructure side, the college has seen significant development with procurement of the state of art equipment and establishment of central facilities like e-Classrooms, Computer Innovation Center, Student activity center, Modern Lift Facilities, Wi-Fi Enabled campus, Staff Rooms and Personal computers to each faculty member, lush green gardens, seating facilities for students, etc.
Human Resource Management	The Institution follows the rules, procedures and policies in recruitment and promotion as stipulated by AICTE, Osmania University and UGC from time to time. Faculty members are encouraged to become members of professional bodies, publish papers in Journals and Seminars / Conference. Financial grant is provided by the institution in order to encourage the faculty. Along with this, the faculty members are encouraged to improve qualification by acquiring Ph.

	D. degree. Various incentives, both financial and service oriented, are available to the faculty under the strategic development plan. The outcome is as follows: From a total of 15 faculty members with Ph. D. degree in 2009, the number has increased to 55 in 2019. Another 86 faculty members are pursuing their Ph. D. courses in various universities. Faculties have actively published their research papers UGC approved journals, national and international conferences. Many of the faculty have attended: FDP/STTPS, workshops, seminars, online courses actively during the year.
Industry Interaction / Collaboration	A MoU was formalized between M/s. ENTUPLE TECHNOLOGIES, a Bangalore based company specializing in providing a world class team of Next Generation Solution Enablers in system design technologies. In the academic sector, ENTUPLE is committed to bridge the growing gap between curriculum and advancements in the industry by providing effective tools, technologies and enablement to the campuses. The MoU was signed on 02-12-2019 between the HOD, ECED and CEO of ENTUPLE TECHNOLOGIES. A MoU was formalized between M/s. India Matters Foundation, a Chennai based company specializing in engaging the Global Education and Career Forum a leading professional consortium. The MoU was signed on 25-01-2020 between the Advisor cum Director and Secretary India Matters Foundation. A MoU was formalized between M/s. Tech Next Lab (TNL), a Lucknow based company focus on promoting the industry –academic interaction activities and to help achieve academic excellence of MJCET. The MoU was signed on 20-01-2020 between the Advisor cum Director and Director Tech Next Lab.
Admission of Students	For Undergraduate Engineering Course (UG), admissions of students are based on two categories A and B. In category "A" students who qualified and secured good ranks in EAMCET, conducted by Telangana State council of Higher Education (TSCHE) get admission by convener quota. 70 of the engineering seats are allotted to the college by the convener EAMCET, Government of Telangana through single window. In

category "B" students who attempted JEE, EAMCET and top scorers of Board of Intermediate (BIE) get admission by management quota. 30 of the seats are allotted to the college management under management quota as per rules and regulations laid down by the Government of Telangana. Further the admission of students for post graduate (PG) Engineering course is based on GATE and PGCET. The entrance test for admission into PG course is conducted by IITs i.e. GATE, and PGECET by Osmania University respectively.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	NIL
Administration	NIL
Finance and Accounts	Muffakham Jah college of Engineering and Technology has successfully implemented e-governance in area of finance and account with the intention to produce quick retrieval of information that is "Single Click Accounting" "T info solution" is the vendor which provide us its service and uses Tally software (Multi user). e governance by MJCET for finance and accounting was first implemented in the year 2011.Pay slip generation is done using" DBASE" application developed by computer science Engineering department of MJCET and was first implemented in the year 1997. Salaries are given to the employees promptly on 31st of every month and Pay slip are given without any delay.
Student Admission and Support	e- governance in the area of student admission and support is done using different platform first is "My fee, second is "Online Grievances Redressal Portal" third one is Online Mentoring Portal developed by Computer Science Engineering department of the College. Last but not least is "100pins.com." Online Assessment of internal marks is done using online Assessment Matrix developed by one of the faculty of CSE department.
Examination	Achieving paperless communication between Exam cell and Osmania university is done through OU portal. Students Hall tickets, seating plan are all done online. Students results are declared online. Filing of examination

	form, E valuation of papers (i.e. Internal, External and Laboratory exam) and uploading of marks are all done online. SBI collect website is used for fee collection purpose and it was first implemented in the year 2017. Laboratory External viva-voce is conducted online using Google meet during this pandemic. Final year project viva voce for the Project seminar (VIII semester) was conducted through Google meet. Online examination of internals has given lot of comfort to student as well as faculty during this pandemic.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Sk Kareem Ahmmad Associate Professor	Paper present published ICC-2019 Bukaner, Rajasthan Physical Properties of ordinary portlant cement (3rd ICC-2019)	Nill	5000
2019	Mrs Gitasri Mukharjee Asst. Prof	Presented paper on "Gender Changes the Lens of Adjustants", National Conference on Language Literature Media	Nill	1000
2019	Ms Fahmina Taranum Assistant Professor	Two day Intl/ Conference at ICRIEEE, Paper title: Detection and Interception of black hole attack with justification using anomaly based intrusion detection system in	Nill	5000

		MANETs			
2019	Mrs Gitasri Mukharjee Asst. Prof	Two day National seminar on "Language Literature Paper Present Writing Challenges of Engg Students"	Nill		500
2019	Mrs. Maniza Hijab Associate Professor	5 days International Workshop on "Advance in Cloud Computing "	Nill		3000
2019	Dr. (Mrs.) Kaleem Fatima Professor	Faculty Development Programme on "Trends in SoC Design and its application "	Nill		2500
2019	Mrs. Aijaz Fatima Associate Professor	One week workshop "Application of AI Techniques in Electrical Engg."	Nill		2000
2019	Mrs. Gouri R. Patil Associate Professor	One day Workshop on " Cyber Security Fundamental, UCE, OU	Nill		500
2019	Dr. Devasish Pal Professor	One day Workshop on " Cyber Security Fundamental, UCE, OU	Nill		500
2019	Mr. M.A. Haleem Rizwan Asst. Professor	One Week Faculty Development Programme in MVSR " Mathematics in Real Applied computer learning environment"	Nill		1000
		[View File](#)			

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional	Title of the administrative	From date	To Date	Number of participants	Number of participants

	development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)
2020	Computational Intelligence : Techniques Tools and Applications	Nill	06/01/2020	11/01/2020	110	Nill
2020	SAE-MJCET Chapter in collaboration with SUPRA SAE INDIA. SAE INDIA	Nill	23/02/2020	23/02/2020	20	Nill

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
AI Applications in Power Electronics Systems	2	20/01/2020	25/01/2020	6
AICTE Sponsor 2 Week FDP On Precision Engineering and Machining Process	2	14/11/2019	26/11/2019	13
Mathematics in Real, Applied Computating Learning Environment	2	01/07/2019	06/07/2019	6
FDP on Pedagogical Training	6	09/12/2019	13/12/2019	5
Online FDP on Artificial Intelligence	5	22/05/2020	26/05/2020	5
One Week STTP on 3D Printing Processing and	4	25/11/2019	29/11/2019	5

Application				
Computational Intelligence: Techniques, Tools and Applications	18	06/01/2020	11/12/2020	6

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	0	3	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• College Management endows with benefit to the eligible teaching staff members. • Employees Provident Fund (EPF) involvement is grant to the eligible staff members of the college. • Group Medical Insurance is provided by the college to teaching staff members • Comfortable seating for faculty • All the teaching staff members are eligible to avail the Casual Leave of 12 days, Earned leave of 6 days, Medical leave of 10 days, Half Pay leave and Extra-ordinary leave, and 6 weeks of vacation in a year. • Paid Maternity leave is provided for female staff members of the college subject to the two children norm and 120 days period. • College also provides On-duty facility to the faculty members for attending workshops, conferences, seminars, FDP's, or other official events, meetings, programs, etc. • Fee concession of 50 is given to one child of staff members for education purpose in constituent	• Medical Reimbursement to NTS with less than Rs.21,000/- gross pay under ESIC • Festival advance of Rs.8000/ 5000 is extended to NTS. • College Management endows with benefit to the eligible non-teaching staff members. • Group Medical Insurance is provided by the college to non-teaching staff members • All the non-teaching staff members are eligible to avail the Casual Leave of 12 days, Earned leave of 6 days, Medical leave of 10 days, Half Pay leave and Extra-ordinary leave, and 6 weeks of vacation in a year. • Annual performance appraisal of non-teaching staff is based on the confidential report submitted by the Laboratory Incharge / Head of the Department / Administrative Officer. The format specified by Osmania University is followed by the institution. • Reverse Osmosis Water Treatment Plant and water coolers facility is provided for clean and portable drinking water for teaching and NTS as well	• Two week induction program for the first year students as proposed by AICTE from 2018 onwards. • Students who perform well are identified on the basis involvement in class room, aptitude test taken during the induction program, bench mark tests, internal assessment tests, university exam etc • Students are encouraged to inculcate research orientation by involving them in Research and development projects of the institution. • Students are motivated to participate in seminars and conferences and publish papers. • There is a provision for student mentoring to monitor the academic performance of the students and interact frequently with the students and their parents to understand and assist students with issues that affect their ability to learn or impede their academic success. • A personality development workshop is conducted for the students who have good

institutions. • Financial support of Rs. 3000/- per year is provided for the teaching staff members for attending Workshops Faculty Development Programs. • NPTEL Examination fee reimbursement for teaching staff • Faculty is encouraged to publish papers in UGC recognized journals and financial assistance of • Rs.15000/- per year is provided to each faculty member by the college for publications. • College also encourages consultancy projects. Around 60 to 80 of the consultancy work amount received is given to the faculty members involved in consultancy projects. • College also provides financial assistance to faculty members for Membership registration in Professional bodies. • Faculty members are encouraged to pursue doctoral studies. College provides paid leaves for writing Ph.D. entrance, attending seminars, colloquiums, etc. and more upon college approves and sanction in house R D funds for their research activities. Special allowance of Rs. 5000/- added to their salaries after completing their Ph.D. degree. • Each faculty member of the college is provided with Personal Computer with internet connectivity. • Whole campus is Wi-Fi enabled and all the staff members utilize this facility. • Library facilities like referring books magazines, book borrowing, internet browsing for ejournals,

as students. • Both Vegetarian and Non-Vegetarian Canteens are available in campus for those who want to have food in college hours for teaching and NTS as well as students. • Dispensary for any medical emergency and first aid is available. Staff members can visit the dispensary for first aid, doctor's consultation or any medical help. Basic medicines are provided free of cost for teaching and NTS as well as students.

technical skills but are unable to express their knowledge.

etc. is available for all staff members. • Central Sports Facility for in-door and out-door games, physical fitness center is also available in the campus for the staff and the students of the college. • Annual Faculty Performance Appraisal system is in place whose purpose is to evaluate the performance of the Faculty over one calendar year, measured against well-defined parameters. The appraisal score is used to identify strengths and weaknesses of the employees. Based on this, faculty members are provided opportunities to improve their weak areas.		

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The management of the Institution appoints auditors to conduct both internal external audit on a regular basis. The terms of reference including the scope and coverage of the audit are decided by the management of the institution. As a statutory requirement the internal audit is conducted during the period from December – January every year and the external audit is conducted during the period from June-August every year. The auditing team begins the process by verifying the vouchers of all the transactions which includes but not limited to entries of student's fee, salary statements, purchase invoices, verification of ledgers, bank statement, cash book and general register. Stock registers maintained by various departments consist of entries of consumables and non-consumables along with their receipts and invoices with the delivery challan. The general register includes settlement of advances which are made to the head of the departments for conducting various programs and events. The auditing team, after thorough auditing of the above records, financial statement viz. trail balance, income and expenditure account, balance sheet, schedules, receipts and payments are prepared and submits a report to the management on their findings. The management of the Institution also appoints external Auditors for verification and scrutiny of all the items of income expenditure and the auditors prepare the final balance sheet for the audited statement of Accounts and submit their report at the end of every financial year. The observations / objections if any, raised in the report submitted to the management by the auditors are communicated back to the accounts department of the institution for clarifications and/or rectification.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Research and Development MJCET	840915	Research and Development

6.4.3 – Total corpus fund generated
0

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Osmania University	Yes	IQAC
Administrative	No	Nill	Yes	Internal AAA

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Members of IQAC 2. Facilitation of Internship at their respective organizations 3. Placement and career guidance

6.5.3 – Development programmes for support staff (at least three)

1. Computer literacy program for all support staff 2. Training technicians in use of latest tools and equipment 3. Refresher course in advanced programming skills

6.5.4 – Post Accreditation initiative(s) (mention at least three)

The distinctive mark of MJCET has been quality sustenance and enhancement since its inception. Since its first cycle of accreditation in 2020, MJCET has been deeply committed to upholding the quality of education it provides. It has explored new avenues to cater to the needs of the society and the student-teachers and to make the transaction of teaching and learning processes technology-enabled and reflective practice. It has taken all worthwhile means to create an ambience for the staff and student-teachers to seek and acquire. MJCET is making great strides in augmenting infrastructure facilities, by paying undivided attention to the professional development of the staff and student-teachers and introducing new elements in curriculum transaction. Some of the Post Accreditation Initiatives that have been undertaken are listed below: 1.Online Classes, Assessment, Assignment through Google Class Room. 2. Online feedback 3. Implementation of Covid-19 protocol The Management has put in concerted efforts to furnish all the classrooms with computer system, LCD projectors and Internet connection in order to make the teaching learning technology enabled and meaningful. The faculty members have been constantly encouraged to use technology for curriculum transaction. The student-teachers have been urged to prepare their assignments, lesson plan, and teaching-learning materials with the help of ICT resources online teaching method such as Google Class room to communicate for conducting online classes, assessment and online feedback was successfully implemented. During pandemic, for the smooth running of online classes the college provided web cameras, writing tablets and all in one computer with inbuilt camera for the conduct of classes and assessment. Online feedback has been introduced followed in the institution to record the views gathered from the student-teachers, staff, alumni, academic peers, community, and stakeholders through feedback forms, emails, and letters and through organized meetings to improve the quality of the programme. Regular staff meetings and review meetings after each academic programme were conducted through Google Meet which enabled the Management and the Principal to take appropriate decisions to enhance the quality and proactive steps to redress the grievances expressed. MJCET during Covid-19 strictly followed the safety precautions in context of the same guidelines were issued in accordance with

Ministry of Health (MOH), a committee was formed and specific guidelines were strictly followed to avoid the transmission of Covid-19 a practical framework of action was prepared for and mitigate community transmission of COVID-19. Arrangements of sanitizer, temperature check were a part of the initiative.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Unnat Bharat Abhiyan	06/07/2019	06/07/2019	11/01/2020	25
2019	Half Day Workshop on IPR and Innovation	26/11/2019	26/11/2019	26/11/2019	45
2020	NSS	11/03/2020	11/03/2020	11/03/2020	13
2020	Training for online classes	23/03/2020	23/03/2020	28/03/2020	175
2020	Training for online classes as well as feedback from Students	30/03/2020	30/03/2020	30/03/2020	2675
2020	Implementation of Covid-19 protocol.	23/03/2020	23/03/2020	31/05/2020	175

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Role of Women in Science and Technology" - National Science Day	28/02/2020	28/02/2020	70	85

Safety in our hands - Women's Day Campaign	07/03/2020	07/03/2020	80	110
Guest Lecture talk on "Electronics in Aviation Industry and Women Empowerment and leadership"	07/03/2020	07/03/2020	30	40

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
0.43 percent

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	Nill	1	22/08/2019	01	Airtel Marathon	To encourage active and healthy lifestyle among all age groups in the cities of Hyderabad and Secunderabad	50

| 2019 | Nill | 1 | 20/12/2019 | 09 | Village House Hold Survey Under Unnath Bharath Abhiyan | Collected family particulars and economical data in order to formulate upliftment initiativesCollected family particulars and economical data in order to formulate upliftment initiatives | 20 |

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Employees Service Rules	Nill	09 September 2002 publication date
Employees Leave Rules	Nill	09 September 2002 publication date
Employees Conduct Rules	Nill	09 September 2002 publication date
Employees Classification Control and Appeal Rules	Nill	09 September 2002 publication date
Campus Code of Conduct for Students	Nill	Revised code of conduct incorporating clauses on use of cell phones with effective from 01-08-2013

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2019	15/08/2019	250
Republic Day	26/01/2020	26/01/2020	220

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Environmental Science Course

2. Car Pooling

3. Plastic-free campus

4.. Paperless documents
5. Green landscaping with trees and plants

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - I Self-Learning Culture at MJCET • In order to promote a culture of smart learning and lifelong learning with a holistic goal of ensuring access, equity and quality of education for all, institution has taken an initiative to encourage students as well as faculty members to take active part in online courses offered by SWAYAM NPTEL, ATAL FDP, and other state and national level FDPs. • The college has taken several noteworthy and resourceful steps in enabling seamless access to quality online education through establishment of a full-fledged self-learning facility with 30 computers of latest configuration with audio visual aids, overhead projector, smart board, and other essential infrastructure. This facility is exclusively dedicated for online, self, smart learning for continuous upgradation of faculty and students in cutting-edge technologies. • The vision of self-learning is further strengthened by establishment of a NPTEL Committee at the institutional level which includes the director of college and other senior faculty members and professors representing each department with single point of contact (SPOC) as its chairperson. This committee is entitled to create awareness among faculty members and students to undertake these online courses, timely announcements of schedules of enrolment, nominating faculty members to represent institute in various NPTEL awareness programs held at state and national level. • As most of the online courses are rendered free of cost but for the certification tests/assessments faculty members are required to pay the examination registration fee. The college management has taken a policy decision to reimburse full registration fee for each faculty member for one NPTEL FDP course in an academic year. The reimbursement related office formalities are also delegated to the committee members from respective departments for direct transfer of amount in faculty members' accounts. In order to encourage active participation and consistent follow up of online courses, the college organizes an annual day for distribution of certificates to those faculty members and students who have successfully completed/secured various titles of excellence in assessments. • Senior and subject related faculty members are encouraged to take role of a mentor for students who have enrolled in NPTEL courses to ensure doubt clarifications and rigorous follow up of activities for the entire course duration for successful completion of the course. Best Practice -II Use of Google Suite (Google Workspace) 1. Use of Google Meet for Online Class delivery Help students and faculty to stay securely connected with enterprise-grade video conferencing built on Google's robust and secure global infrastructure. 2. Google Classroom for Student performance assessment(CIE, quizzes, assignment) • Secure tool that enables better teaching and learning experiences. • It enables faculty to upload class recordings, power point presentations and other resources to facilitate students. • It facilitates faculty to assess the student performance in Continuous Internal Evaluation (CIE), quizzes and assignments. 3. Providing Google Suite Account for every individual student and faculty G Suite Accounts provide communication and collaboration tools to empower teaching and learning.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://mjcollege.ac.in/naac/aqar/Part-B-7.2.1-Best%20Practice.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and

MJCET envisions contributing high-calibre engineers to building a modern society. This vision can be achieved by encouraging innovation and stimulating research leading to technological development. The patent is an essential factor in realizing the institutional vision. Patents imbibe innovation-driven culture among students and faculty and promote a Trans disciplinary approach. It is important to support innovation projects and the role of students in innovation. MJCET has signed an MOU with a consulting firm "Prometheus Patent Services Pvt. Ltd." to assist the faculty and students in documentation and filing of an application for patenting their inventions. A seminar on IPR was conducted by the consultant on December 13, 2018, for creating awareness. The college has formed a Patent and external funding committee to identify patentable inventions and streamline the process. OUTCOME: The outcome of the encouragement for patents has resulted in the publication of the following patents. 1. A patent has been published on 17/01/2020 on the Government website of the Indian Patent Office for Patent Application titled METHOD FOR DETECTING OPTIMAL LOCATION AND COORDINATED CONTROL OF DSTATCOM IN A RADIAL DISTRIBUTION NETWORK. Name of the Inventor(s): Mr. K. MAHAMMAD RAFI Mr. J. V. R. VITHAL Prof. P. V. N. PRASAD 2. A patent has been published on 03/01/2020 on the Government website of Indian Patent Office for Patent Application titled A PNEUMATIC QUADRUPED ROBOT AND A METHOD OF PREVENTING ACCIDENTS THEREOF. Name of Applicant: 1) MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant: Mount Pleasant, 8-2-249 to 267, Road No. 3, Banjara Hills, Hyderabad-500034, Telangana, India. Telangana India (72) Name of Inventor: 1) Dr. ISHRAT MEERA MIRZANA 2) Dr. KALEEM FATIMA 3) MOHAMMED ABDUL MUQEETH 3. A patent has been published on 03/01/2020 on the Government website of the Indian Patent Office for Patent Application titled PROCESS AND SYSTEM FOR EFFICIENT BIODIESEL PRODUCTION. Name of Applicant: 1)MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant: Mount Pleasant, 8-2-249 to 267, Road No. 3, Banjara Hills, Hyderabad-500034, Telangana, India. Telangana India (72) Name of Inventor: 1) Dr. SATYANARAYANA M.G.V. 2) Dr. ISHRAT MEERA MIRZANA 3) SYED SHAHBAZ PEERAN QADRI

Provide the weblink of the institution
https://mjcollege.ac.in/naac/aqar/Part-B-7.3.1-7.3%20Insttitutional%20distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

MJCET is a recognized research center of OU. Presently the college has 14 Recognized guides, 60 PhDs' and 79 staff members are pursuing PhDs out of a total faculty strength of 176. The college plans to increase recognized guides and doctorates in its strength. A lot of emphasis is being given for teachers to publish papers in the Journals notified on UGC website and also in International conference proceedings. The college plans to increase its paper publishing by making it compulsory to publish at least one paper per year in recognized journals as per UGC /presentation in International conferences. To inculcate, guide and promote staff and student members in carrying out research work, a Research Cell will be established. There will be a research cell at the college level and also at the department level. At college level it will be an extension of R D cell. Research scholars, other staff members, Doctorates and students can become members of this group. Mechanism: 1. Members desirous to join this cell must register mentioning their particulars, area of research, work carried out as on date, progress in terms of paper published/presented in Journals/Conferences etc in the member registration form. 2. At college level once a month and at department level twice a month research meetings will be held where members can present their progress and further discuss their future course of action. 3. Minutes of meetings and presentation videos will be maintained. Advantage: 1.

Help research members identify other members working in the same/similar domain. 2. Identify problem areas and challenges for research. 3. Research groups domain wise can combine to jointly publish papers. 4. Identify students for implementing ideas which is mutually beneficial and can be part of their academic projects. Certificates to all students carrying out research work will be given. 5. Students resume improves by listing of papers published. 6. Develops healthy competition and pressure to publish papers. 7. PhD scholars can present their work. Experiences and problems faced by the PhD holders along with suggestions can be shared in the meetings. This cell can also be utilized to carry out outside projects. Intellectual property rights (IPR): A lot of emphasis is also given to Intellectual property rights (IPR). They are legal rights that provide creators protection for their original works, inventions or the appearance of products, artistic works, scientific developments and so on. There are four types of intellectual property rights (IPR): patents, trademarks, copyrights, and trade secrets. • Professionals in this field are invited on a regular basis for the awareness of IPR through the conduct of Workshops/ seminars. • Staff members are also being deputed to attend such Workshops/ seminars held at other colleges. • All forms of encouragement to staff will be carried out to improve IPR score. Total patents by the college as on date granted is four and published is seventeen. Guidance cell for higher studies: A separate cell will be established for advice, guidance and maintaining the progression of students for