Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)**
Name of the head of the Institution	**Dr.M.Madheswaran**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04287226837**
Mobile no.	**8754008537**
Registered Email	**principal@mec.edu.in**
Alternate Email	**coe@mec.edu.in**
Address	**Kakkaveri, Rasipuram**
City/Town	**Namakkal**
State/UT	**Tamil Nadu**
Pincode	**637408**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**27-May-2016**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.N.Suthanthira Vanitha**
Phone no/Alternate Phone no.	**04287220837**
Mobile no.	**9965531515**
Registered Email	**iqac@mec.edu.in**
Alternate Email	**dean.qa@mec.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://mec.edu.in/wp-content/uploads/2021/07/Yearly-Status-Report-2018-19.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://mec.edu.in/wp-content/uploads/2021/07/Academic-Calendar.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity Period From	Validity Period To
1	**B**	**2.52**	**2016**	**17-Mar-2016**	**31-Dec-2021**

6. Date of Establishment of IQAC

04-Jun-2016

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
IQAC Meeting – I	10-Jul-2019 1	23
Skill Enhancement Program	21-Aug-2019 1	312
Research Methodologies and Documentation	30-Aug-2019 2	102
Effective usage of Online Resources in the Digital Era	25-Sep-2019 1	52
[View File](#)		

8. Provide the list of Special Status conferred 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
Dr.M.Madheswaran	Seminar Grant	CSIR	2020 2	50000
Dr.M.Madheswaran	Popular Lecture Series	DBT	2020 3	205000
Dr.R.Prakash	Seminar Grant	CSIR	2019 2	50000
Dr.P.Srinivasan	Seminar Grant	SERB	2019 2	50000
Dr.R.Thanigaivelan	Symposium	DST-SERB	2019 2	75000
Dr.P.Suresh	Popular Lecture Series	DBT	2020 3	210000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	4
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 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)

• Coordinated Board of Studies and Academic Council Meetings • Conducted Academic and Administrative Audits • Motivated Faculty Members for Research Proposal, Publications, Filing of Patents and Consultancy Work • 50G Technology Learning Group(TLeG)formed with 1240 students which acted as the knowledge sharing hub for Emerging Technologies • Team 100 is constituted with Senior Faculty Members for the Continuous Quality Enhancement of the Institution.

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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
Implementation of ISO 9001	ISO 9001: 2015 Certified
NIRF 2020	Participated in NIRF Ranking 2020 in Engineering Category
MHRD-AISHE (2019-2020)	MHRD- All India Survey on Higher Education (AISHE) submitted on 15.02.2020
MHRD- Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020	Institution Ranked under B and C with 18th Ranking out of 34 Institutions
AICTE Approval Process	Extension of Approval received from AICTE
Anna University Affiliation Process	Anna University Affiliation received
No.of Board of Studies Meeting Planned per Academic Year for each Department	Board of Studies Meetings to all Department per Academic Year Conducted- 1
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14. Whether AQAR was placed before statutory body ?   Yes

Name of Statutory Body	Meeting Date
Governing Council	22-Mar-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?   Yes

Date of Visit   12-Feb-2020

16. Whether institutional data submitted to AISHE: Yes

Year of Submission	2020
Date of Submission	15-Feb-2020
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)	To enhance the quality of paperless Administration ERP Management Information System with following modules are executed. • Students Attendance • Students Academic Records • Examination Module • Online Examination • Marks Entry and Mark Sheet Printing • Result Publication • Issue of Transfer Certificate etc. • Students Transport Facilities • Staff Attendance • Library Facilities such as Library Stock Maintenance • OPAC • Issuing of Books and return of Books using Barcode in student ID Card • Journals entry and maintenance • Check in Check out facilities • HR Management Finance and Accounts: • College Fee Collection, Fees Payment • Students Due list • Merit Scholarship list • Bus Fee and Bus Stage entry • Daily Accounts • Hostel Management COE Administration : • Examination Process • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination TimeTable and Hall Ticket Generation • Examination Attendance Generation • Checklist Generation, Flip and Foil Cover Generation • Attendance Verification and Dispatch Generation • Practical Mark Entry • Dummy Number Generation • Bundle Number Generation • Examination Mark Entry • Galley Generation • Result Passing • Grade Sheet Generation • Award of Degree Report Generation • Revaluation recommendation by Faculty through online • Central Valuation • Result Publication through online • Optional Arrears Registration • Soft Copy of Answer Booklets • Result Analysis for the CIA Test and Model Exam • Certificate Issuing • Performance Reports, Access Reports, Online Entries and Enquiries • Selection of Elective Subjects under CBCS • Students Attendance Entry and Report Generation • Academic Management Student Admission and Support : • Students Application Registration • Scrutinizing

Applications • Selection Module • Ranking • Applied students past Academic Records • Fees Collection and Fees Payment • Automatic SMS delivery to the Parents for Attendance of their wards, Students Performance in the CIA Test, e Circular Notifications etc. • Academic Data Entry for Faculty Members. The System helps the Management, Principal, Deans, HoDs and Faculty to view the Academic details of the Students.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	IT	Information Technology	01/07/2019
BE	BM	Bio Medical Engineering	01/07/2019
BE	MD	Medical Electronics	01/07/2019
BTech	BT	Bio Technology	01/07/2019
BTech	CH	Chemical Engineering	01/07/2019
BE	CE	Civil Engineering	01/07/2019
BE	CS	Computer Science and Engineering	01/07/2019
BE	EC	Electronics and Communication Engineering	01/07/2019
BE	EE	Electrical and Electronics Engineering	01/07/2019
BE	ME	Mechanical Engineering	01/07/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Civil Engineering	01/07/2019	19CEP04/Value Added Course	01/07/2019
BE	Computer Science and Engineering	01/07/2019	119CSP04/Comprehension	01/07/2019

BE	Electronics and Communication Engineering	01/07/2019	19ECP03/Seminar	01/07/2019
BE	Electrical and Electronics Engineering	01/07/2019	19EES03/Presentation Skill and Technical Seminar	01/07/2019
BE	Mechanical Engineering	01/07/2019	19MES03/Value Added Course/Internship	01/07/2019
BTech	Information Technology	01/07/2019	19ITP05/Entrepreneurship Development	01/07/2019
BE	BioMedical Engineering	01/07/2019	19BMS03/Comprehension	01/07/2019
BE	Medical Electronics	01/07/2019	19BMS05/Hospital Training	01/07/2019
BTech	Bio Technology	01/07/2019	19MDS3/Mini Project/Electronics Design Workshop	01/07/2019
BTech	Chemical Engineering	01/07/2019	19CHF03/Comprehension	01/07/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	Nil	Nill
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level 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	Computer Science and Engineering	01/07/2019
BE	Electronics and Communication Engineering	01/07/2019
BE	Electrical and Electronics Engineering	01/07/2019
BE	Mechanical Engineering	01/07/2019
BTech	Information Technology	01/07/2019
BE	Bio Medical Engineering	01/07/2019
BTech	Bio Technology	01/07/2019
BTech	Chemical Engineering	01/07/2019

BE	Medical Electronics	01/07/2019
ME	Computer Science and Engineering	01/07/2019
ME	Communication Systems	01/07/2019
ME	VLSI Design	01/07/2019
ME	Power Systems Engineering	01/07/2019
ME	CAD/CAM	01/07/2019
MBA	Master of Business Administration	01/07/2019

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
Concrete and Steel Design using STAAD.Pro	10/01/2020	87
Modeling and Steel Design using E-TABs	03/02/2020	81
Core Java	02/12/2019	45
Animation and Graphics Design	09/12/2019	60
Impact of VLSI on Modern Technology	17/09/2019	82
Applications of EDA Tools for Communication	17/12/2019	76
Smart Phone Troubleshooting	19/02/2020	59
Automation using Arduino with IoT	20/11/2019	74
Basics of Industrial Automation using PLC	25/12/2019	66
Industrial Automation using PLC with SCADA	11/12/2019	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	43
BE	Computer Science and Engineering	43
BE	Electronics and Communication Engineering	40
BE	Electrical and Electronics Engineering	18
BE	Mechanical Engineering	65

BTech	Information Technology	42
BE	Bio Medical Engineering	15
BTech	Bio Technology	11
BTech	Chemical Engineering	9
BE	Medical Electronics	6

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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

? The Institution collects feedback from all the stakeholders on the Curriculum Development,Teaching Learning Process,Course Outcome and Programme Outcome Attainments, Infrastructure and Placement,etc. ?Feedback from Students are obtained on Teaching Learning Process at the end of the course every semester. The feedback is analyzed and corrective measures are carried out to improve Lecture Delivery,Conduction of Labs,Value Added Courses,Outcome Based Education System,etc.?Every semester feedback is obtained from Teachers about the Curriculum and Infrastructure Improvement. The feedback is analyzed and the required changes are made in Curriculum and New Equipments if needed are purchased to enhance Teaching Learning Process and Research? Feedback is obtained either through Online or in Person from Employers about the Programme Outcome Attainments and the progress of our Alumni Employed. Based on the feedback the changes needed in the Curriculum are made with the approval of Board of Studies?The Alumni Feedback on Programme Outcome is obtained during Alumni Visits and Alumni Meet ?Parents Meeting is convened once in a Semester to know the feedback about the progress of their wards on various aspects of the Programme.These collected feedbacks are discussed in Department level committee meetings for necessary action? The feedback obtained is consolidated by the Head of the Departments in concurrence with the Head of the Institution. It is then presented in Academic Council Meeting and Governing Council Meeting for necessary action?Based on the feedback analysis, the number of activities like Skill Development Courses,50G-Technology Learning Group(TLeG)and TechTalk, etc., are increased to enhance the Students Technical Knowledge ?Student Activities Credit and Target-SACT: The Students are expected to Excel in various skills to face the Challenges in Competitive World.The Department Faculty Members plan for more activities for the Students and Encourage them to enhance skills apart from regular Curriculum Subjects?Teacher's Associated Seminar Towards Excellence(TASTE),Multi Disciplinary Lectures (MuDiL),FDPs are organized for the Faculty Members which supports them to expertise in their field.

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
BTech	Chemical Engineering	60	87	14
BTech	Bio Technology	60	86	36
BTech	Information Technology	60	129	60
BE	Medical Electronics	60	72	22
BE	BioMedical Engineering	60	92	57
BE	Mechanical Engineering	150	228	87
BE	Electrical and Electronics Engineering	120	158	92
BE	Electronics and Communication Engineering	180	386	163
BE	Computer Science and Engineering	120	198	119
BE	Civil Engineering	90	86	25
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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	2515	123	254	33	7

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
294	294	16	30	10	30
		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)

The Institution has a Structured Mentoring System which benefits the students in both Academic and Personal. The objective of Mentoring System is to Support, Counsel and Guide the Students for improving their Overall Personality. The Mentor Encourages, Nurtures, Teaches, offers mutual respect and responds to Mentee needs. Each Mentor is assigned with a heterogeneous group of 20 Students and maintains all the records related to the Academic Performance and Extracurricular Achievement of the allotted students. Frequency of meeting is held once in a week on a regular basis. Students may meet whenever the need arises and discuss their problems with their respective mentors. A continual interaction is maintained between the mentor and the mentee to carry out a holistic development among the students. The mentor updates the student academic information in the Student Performance Record and Mentoring Register which includes the Academic, Non-Academic details like Attendance, Continuous Internal Assessment, University Examination Results, Extracurricular and Personal Information. If the Students Academic Performance is not satisfied it will be communicated to Parents. Training and Placement Cell Coordinators assigned from each department. They offer training based on the requirements of the Industries. The Students abilities are shaped through diverse Training Modules like Soft Skills Training, Quantitative Aptitude and Verbal Reasoning. The training department conduct tests on various Training Modules and the performance of the students are analyzed through Online mode accordingly training needs are planned. Faculty Advisor interact with the students frequently and discusses about Classroom Lectures, Laboratory Performances, Participation in Seminars, Conferences, Technical Events and Career Development, etc. In case of any grievances, the mentor supports the Mentee for the improvement of above activities. In addition, the Mentor identifies the Mentee skills and guide for Higher Studies and Entrepreneurship. The mentoring process is reviewed by the respective Department Heads and Principal at regular intervals.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2638	294	1:9

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
294	294	Nill	70	62

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
2020	Dr.K.Ramar	Dean	Best Contribution in Education Award,Innovation Society of India
2019	Dr.M.Madheswaran	Principal	Best Principal of the Year 2019,Centre for Education Growth and Research(CEGR),New Delhi.
2019	Dr.B.Gopi	Dean	Enlightening Inquisitiveness Teacher Award, Indo-Global Summit and Awards(2019)
2019	Dr.N.Suthanthira Vanitha	Dean	Best Academician of the Year 2019

2019	Dr.S.Saravanan	Professor	International Best Researcher
2019	Dr.S.Sundaram	Dean	International American Council for Research and Development
2020	Dr.E.Punarselvam	Professor	Young Achiever Award(International Academicians Researchers Conclave Awards-2020),Innovation Society of India

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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
BE	ME	I/I	28/12/2019	31/10/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nill	Nill	0

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://mec.edu.in/academics/departments/

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
ME	BE	Mechanical Engineering	149	149	100

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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://mec.edu.in/wp-content/uploads/2021/07/Student-Satisfaction-Survey-2019-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Prof.P.Rupa Ezhil Arasi
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
Nill	Nil	Nil	Nill	Nil
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3.2 – Resource Mobilization for Research

3.2.1 – 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
Students Research Projects (Other than compulsory by the University)	720	The Institution of Engineers(India)	0.23	0.23
Projects sponsored by the University	720	Muthayammal Educational Trust and Research Foundation(METRF)	0.25	0.25
Interdisciplinary Projects	180	Muthayammal Educational Trust and Research Foundation(METRF)	1.25	1.25
Minor Projects	180	Muthayammal Educational Trust and Research Foundation(METRF)	1.35	1.35
Minor Projects	360	The Institution of Engineers(India)	0.15	0.15

Minor Projects	180	Tamilnadu State Council for Science and Technology	0.22	0.22
Industry sponsored Projects	180	Caliber Embedded Technology India Pvt. Ltd.	0.12	0.12
Industry sponsored Projects	30	Proxima Infotech Ltd.	0.08	0.08
Industry sponsored Projects	300	Kamalam Poultry Service Equipment	0.12	0.12
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

12

3.3 – Innovation Ecosystem

3.3.1 – 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
Tensor Flow Frame Work	CSE	03/10/2019
Research Methodologies and Documentation	CSE	30/08/2019
Salesforce SCP ADX 201 Administrator	CSE	26/08/2019
Prestressed Concrete Structures	CIVIL	12/10/2019
Hands on Training – PERL	CSE	23/08/2019
Dell EMC – Data Science and Big Data Analytics	CSE	09/12/2020
Skill Training in Technology and Soft Skills	CSE	03/12/2019
Research and Documentation	CSE	23/12/2019
Global AI Boot Camp 2019	CSE	14/12/2019
ODT Algorithm for Cloud Stored Video	CSE	09/11/2019
Deep Sense Learning for Crop Healthcare	CSE	07/11/2019
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3.3.2 – 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
Outstanding Research Faculty Award	Dr.S.Saravanan	Amaravathi Research Academy	16/11/2019	National
Nehru Women Excellence Award	Dr.J.Preetha	Nehru Centre for Women Excellence,Nehru Arts and Science College (Autonomous)	08/03/2020	State
IARDO Academic Excellence Award	Dr.G.Kavitha	International Association of Research and Developed Organization (IARDO)	07/12/2019	International
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3.3.3 – 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
Muthayammal Incubation Centre	Material and System Fabrication Centre	Muthayammal Educational Trust and Research Foundation	3D Printing Technology	Design,Testing and Development	10/10/2019
Muthayammal Incubation Centre	Software Development Centre	Muthayammal Educational Trust and Research Foundation	Quantum Computing for Machine Vision	Software Development and Testing	07/08/2019
Muthayammal Incubation Centre	Embedded Communication Technology Centre	Muthayammal Educational Trust and Research Foundation	Sensors and Computing Systems	Design,Analysis and Development	16/09/2019
Muthayammal Incubation Centre	Electrical Technology Centre	Muthayammal Educational Trust and Research Foundation	Renewable Energy System Solutions	Design,Modelling, Analysis and Development	11/09/2019
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engineering	1
Computer Science and Engineering	1

Electronics and Communication Engineering	7
Electrical and Electronics Engineering	2
Mechanical Engineering	7
Information Technology	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CIVIL	9	0.57
International	CSE	13	1.90
International	ECE	19	1.9
International	EEE	10	0.76
International	MECH	19	1.2
International	IT	22	1.71
International	S and H	3	0.67
International	MBA	3	4.5
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Civil Engineering	5
Computer Science and Engineering	12
Electronics and Communication Engineering	3
Electrical and Electronics Engineering	12
Mechanical Engineering	5
Information Technology	6
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
MP- Finder : Medical Problems Finder and Notification using Deep Learning Technique	Published	202041003756 A	14/02/2020
ISC-Block Chain Control: Block Chain Infrastructure and Smart Contracts Control	Published	202041008770 A	06/03/2020

IoT –Device Configured: Automotive Internet of Things (IoT) Device Configured within a Car Comprises	Published	202041008773 A	06/03/2020
SPT—Mobile Banking: Secured Payment Transfer using Mobile Banking	Published	202041012631 A	08/05/2020
AIAEC– IoT Technology: Artificial Intelligent–based Agriculture Environment Control using IoT Technology	Published	202041013140 A	08/05/2020
CMWP– Machine Learning: Control the Manufacturing and Welding Processes using Machine Learning	Published	202041012284 A	15/05/2020
System and Method based on Unmanned Aerial Vehicle to Detect Forest Fire	Published	201941051953	20/12/2019
Design of IoT System based on Contiki Operating System for Engineering Applications	Published	201941051464 A	20/12/2019
EDP–Machine Learning :Enterprise Internet–of–Things (IoT) Application Development Platform using Machine Learning	Published	202041012276 A	08/05/2020
Face Detection Module	Published	202041001944 A	24/01/2020

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3.4.5 – 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

Title	Authors	Journal	Year		Muthayammal Engineering College	
Effective and Efficient Traffic Scrutiny in Sweet Server with Data	E.Punarselvam and S.Gopi	International Journal on Applications in Information and Communication Engineering	2019	7	Muthayammal Engineering College	7
Different loading condition and Angle Measurement of Human Lumbar Spine MRI Image Using ANSYS	E.Punarselvam	Journal of Ambient Intelligence and Humanized Computing	2020	12	Muthayammal Engineering College	12
Analysis of EDM Process Parameters on Inconel 718 Using the Grey-Taguchi and Topsis Methods	T.Yuvaraj and P.Suresh	Journal of Mechanical Engineering	2019	4	Muthayammal Engineering College	4
Impact of Electrochemical Passivation on Burr Suppression of Ti-4Al-6V Alloy during Machining	R.Thanigaivelan	Surface Engineering and Applied Electrochemistry	2019	1	Muthayammal Engineering College	1
Experimental Investigation on Mechanical and Biodegradation Properties of Indian Almond-Kenaf Fiber-Reinforced Hybrid Composites	J.Bensam Raj and R. Thanigaivelan	Journal of Natural Fibres	2020	1	Muthayammal Engineering College	1

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
Design and Implementation of Low Cost Solar Based Meat Cutting Machine	R.Sagayaraj and S. Saravanan	International Journal of Engineering, Technology Research and Management	2020	9		Muthayammal Engineering College
						9
Shunt Active Power Filter with Solar Photovoltaic System for Long-Term Harmonic Mitigation	G.Vijayakumar	Journal of Circuits, Systems and Computers	2019	1		Muthayammal Engineering College
						1
Optimal Scheduling of Solar Wind Bio-Mass systems and Evaluating the Demand Response Impacts on Effective Load Carrying Capability	N.Mohananthini,S.Saravanan,P.Manikandan and V.Dhinesh	International Research Journal of Engineering and Technology	2020	8		Muthayammal Engineering College
						8
A Dual Stage Flyback Converter using VC Method	V.Dhinesh,R.Raja,S.Karthick and S.Saravanan	International Research Journal of Engineering and Technology	2020	9		Muthayammal Engineering College
						9

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3.4.6 – 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
Different Loading	E.Punarselvam	Journal of Ambient Intelligen	2019	5	12	Muthayammal Engineering

Condition and Angle Measurement of Human Lumbar Spine MRI Image Using ANSYS		ce and Humanized Computing				College
Optimization of Electrochemical Micromachining Process Parameters for Machining of AMCs with Different Compositions of GGBS Using Taguchi and TOPSIS Methods	R.Thanigaivelan	Transactions of the Indian Institute of Metals	2019	7	4	Muthayammal Engineering College
Adaptive Supervised Multi-Resolution Approach Based Modeling of Performance Improvement In Satellite Image Classification	M.Madheswaran	Journal of Ambient Intelligence and Humanized Computing	2020	24	Nill	Muthayammal Engineering College
Localization and Segmentation Of Metal Cracks Using Deep Learning	K.Ramar	Journal of Ambient Intelligence and Humanized Computing	2020	18	Nill	Muthayammal Engineering College
Copper (0) Mediated Single Electron Transfer-Living Radical Polymerizati	N.Suthanthira Vanitha	MDPI,Polymers	2020	12	Nill	Muthayammal Engineering College

| on of Methyl Methacrylate: Functionalized Graphene as a Convenient Tool for Radical Initiator | | | | | | | |
| Elliptic Curve Cryptography based Secure Data Communication and Enhance Sensor Reliability in Wireless Sensor Network | T.R.Ganesh Babu | International Journal of Recent Technology and Engineering | 2020 | 6 | Nill | Muthayammal Engineering College |

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	62	930	833	874
Presented papers	44	11	Nill	Nill
Resource persons	Nill	4	3	7

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
CSE	Secure Data Services in Cloud	Pentagram Research Centre Pvt. Ltd.	250000
CSE	Process and Project Management Consultancy	iGenuine Soft Solutions Pvt. Ltd.	215000
ECE	IoT Platform Development using Machine Learning Algorithm for Automation	Vee Eee Technologies Solution Pvt. Ltd.	210000

EEE	Home Automation Embedded System using IoT	Iologix Automation Solutions	100000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Dr.R.Thanigai velan Mr.R.K.Ud hayakumar Mechanical	MSME Supported Training Programme for Corporate Engineers on Lean Six Sigma	1.Britania Industries,Erode. 2.Syntex Manufacturing,Pudhuchatram.3.Sri Logistics,Salem. 4.Muthayammal Engineering College,Rasipuram. 5.M.Kumarasamy College of Engineering,Karur.	150000	10
Mr.R.K.Udhaya kumar Mechanical	EDC Awareness Programme	Muthayammal Engineering College Students General Public from nearby Village.	22500	150

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3.6 – Extension Activities

3.6.1 – 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
Campus Cleaning Awareness	NSS and MEC	2	100
Awareness Program-Postal Schemes and Employment Registration	NSS and MEC	2	250
Independence Day Celebration	NSS and MEC	2	150
Fit India Movement Pledge	NSS and MEC	2	250
Smart Walk-National Sports Day Celebration	NSS and MEC	2	150
Tree Plantation	NSS and MEC	2	100
Plastic Free Awareness Rally	NSS and MEC	2	100

New Voters Awareness Camp	NSS and MEC	2	150
National Constitutional Day Pledge	NSS and MEC	2	150
Republic Day Celebration	NSS and MEC	2	350
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3.6.2 – 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
NIL	NIL	NIL	Nill
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3.6.3 – 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
YRC	Muthayammal Engineering College	Swachh Bharath Awareness	2	284
YRC	Muthayammal Engineering College	Blood Donation Camp	4	125
YRC	Muthayammal Engineering College	Diabetic Screening Camp	2	325
YRC	Muthayammal Engineering College	Awareness on AIDS, HIV and ART	2	259
YRC	Muthayammal Engineering College	Free Medical Camp	2	217
YRC	Muthayammal Engineering College	Awareness Programme on Adolescent Health	2	287
YRC	Muthayammal Engineering College	Demo Program For Fire Safety and First Aid	2	192
YRC	Muthayammal Engineering College	Awareness Rally on Road Safety	2	322
YRC	Muthayammal Engineering College	Environmental Awareness Programme	2	312
YRC	Muthayammal Engineering	World Water Day Awareness	2	379

College	Rally		

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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Activities–Saveetha Engineering College,Chennai.	Dr.Saju Simon– Muthayammal Engineering College	Muthayammal Engineering College	1
Research Activities–VIT University,Vellore.	Dr.K.Ramar –Muthayammal Engineering College	Muthayammal Engineering College	1
Industry Interaction–Jasmin Infotech Pvt. Ltd., Chennai.	Dr.M.Madheswaran– Muthayammal Engineering College	Muthayammal Engineering College	1
Industry Interaction–AWECARE,Thindal ,Erode.	Mr.B.Prasanna –Muthayammal Engineering College	Muthayammal Engineering College	1
Research Activiti es–University of Mysore, Mysore.	Dr.K.Ramar– Muthayammal Engineering College	Muthayammal Engineering College	1

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3.7.2 – 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
Industry	Job Training	Ambal Auto, Coimbatore.	29/07/2019	03/08/2019	Students
Industry	Internship	Kaashiv In foTech,Chenn ai.	24/11/2019	28/11/2019	Students
Industry	In Plant Training	TCES IT ED UCATION,Sale m	27/11/2019	29/11/2019	Students
Industry	In Plant Training	DELL Techn ologies,Chen nai.	09/12/2019	13/12/2019	Students
Industry	In Plant Training	Innogram,S alem.	23/12/2019	03/01/2020	Students
Industry	In Plant Training	Code Bind Technology,C oimbatore.	03/01/2020	07/01/2020	Students

Industry	In Plant Training	Code Bind Technology,Coimbatore.	27/11/2019	01/12/2020	Students
Industry	Job Training	Titan Company Ltd, Hosur.	16/07/2019	26/07/2019	Students
Industry	Job Training	Sri RajLakshmi Automobiles (TATA Motors)	22/07/2019	27/07/2019	Students
Industry	Job Training	The Dharmapuri Dt.Co-oP. Sugar Mills Ltd.,Dharmapuri	25/07/2019	31/07/2020	Students
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
VM Ware India ,ICT Academy,Chennai.	11/12/2019	Value Added Courses, Workshops, Short Term Training Programs, Entrepreneurial Development Programs and Placement Opportunities.	129
UiPath Academic Alliance, Bangalore.	06/11/2019	R and D Training ,Internship for Faculty and Students	168
COINDIA,Coimbatore.	05/09/2019	Training Program for Students and Faculty, Students Project and Internship.	107
Siemens Centre for Excellence ,NIT,Trichy.	20/09/2019	R and D Training, Internship, Training Program for Students and Faculty and Students Project.	125
NIRT Renewable Energy Pvt.Ltd., Salem	31/08/2019	Training Program for Students and Faculty, Students Project work and Internship.	50

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
12600000	12040000

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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
Impress Dolphin Software Solutions	Partially	18	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	39268	9145856	261	32021	39529	9177877
Reference Books	6151	2458240	45	17500	6196	2475740
e-Books	6000	36000	20	2000	6020	38000
Journals	2598	3348650	205	288932	2803	3637582
e-Journals	89725	1852800	19124	340372	108849	2193172
Digital Database	13538	433720	2	22070	13540	455790
CD & Video	2122	22660	24	240	2146	22900

Weeding (hard & soft)	**1287**	**386100**	**32**	**9600**	**1319**	**395700**
Others(specify)	**47520**	**367900**	**3070**	**34200**	**50590**	**402100**

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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
Dr.S.Sundaram	**TQM—Deming's Principles**	**PPT**	**19/07/2019**
Dr.R.Thanigaivelan	**Introduction of Unconventional Machining Process**	**PPT**	**09/12/2019**
Dr.P.Suresh	**High Performance Materials Applications**	**PPT**	**11/10/2019**
Dr.N.Natarajan	**Revolution of Composite Materials**	**PPT**	**05/08/2019**
Dr. K.Gunasekaran	**Methanol Fueled Marine Diesel Engine**	**PPT**	**03/10/2019**
Dr.J.Bensam Raj	**Mechanical Energy Storage Devices**	**PPT**	**12/09/2019**
Dr.V.L.Raja	**Applications of Additive Manufacturing**	**PPT**	**13/12/2019**

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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	**840**	**500**	**120**	**60**	**120**	**10**	**30**	**100**	**0**
Added	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**840**	**500**	**120**	**60**	**120**	**10**	**30**	**100**	**0**

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

100 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
Muthayammal Virtual Learning	http://www.mec.edu.in/

Centre(MVLC))	
MEC Lecture Hours	http://www.mec.edu.in/
MEC Tutorial Hours	http://www.mec.edu.in/

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
63500000	63148725	29000000	29036965

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)

Institution has a Procedures and Policies for Maintaining and Utilizing Physical Infrastructure like, Laboratories and Classrooms: All the equipments and machinery of the laboratories are periodically maintained by the Lab Technicians. Purchase of equipments and their maintenance in Laboratories are carried out by the respective department through Purchase Committee. Laboratories are audited semester wise. The Stock Register, Consumable Register, Utilization Register, Maintenance Register Calibration details are maintained and verified by the Audit Team. Based on the warranty the supplier of the equipment/machinery will be intimated about the repair or service either Inhouse or in the supplier premises based on the nature of fault. The Technical Staff send report to the Physical Lab Incharge and same to the HoD for further process. The Class Rooms are maintained with Boards, LCD Projectors and Smart Boards to support various delivery modes of innovative techniques for the enhancement of Teaching and Learning Process. Library: The Central Library is supportive for the Teaching and Learning of the faculty members and the students. The library facilities are strengthened every year through continuous procurement. The Library Advisory Committee comprising of the Senior Faculty Members and Student Members are functioning for the effective utilization of the Library Resources. Digital Resources like DELNET, NDLI, e-Books, e-journals, NPTEL lectures ,CD and Videos are available in the library. Computing Facilities: The Computing Facilities like Hardware and Software are maintained by the System Administrator and Team. It provides the IT services like Purchase, Maintenance, Campus Network and Internet Connectivity. The Sports facilities are available for conducting selection trials of students to participate and to conduct the various tournaments and coaching. Annual Sports events are conducted for students and faculty members. Infrastructure Maintenance: The Campus maintenance includes, Campus Cleanliness, Daily maintenance of the interior facilities like Classrooms, Laboratories, Library, Pathway, Staircase and other general amenities are monitored by Estate Officer. Electrical Maintenance: Power Supply, Generators and Electrical Repairs are looked after by the Electricians to facilitate the campus with reliable electric power. The Solar Power Generation System of 50 KVA capacity is installed in the campus. The Fire Extinguishers and First Aid Kits are fitted in the Laboratories and in required places in the campus. The 24x7 CCTV are installed in the Campus for Safety purpose. Medical Centre has all the necessary medicines and health support facilities for the purpose of Healthcare and Hygiene of Students and Staff Members. One Doctor and one Attendant are available in the Medical Centre. Ambulance Service is available in the campus for attending emergency cases immediately with utmost care. The drinking water facility to the entire campus is done through RO plant and water doctor are kept to supply drinking water at various service points.

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	Meritorious Scholarship	2054	30302850
Financial Support from Other Sources			
a) National	Tamilnadu Government Scholarship and Others	2200	65535415
b) International	0	Nill	0
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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 and Mentoring	05/07/2019	2664	Mentors / Counsellors
Yoga and Meditation	21/02/2020	310	Yoga and Meditation Cell
Bridge Courses	01/07/2019	1429	External and Internal Resource Persons
Communicative English	05/08/2019	832	Faculty/ Experts
Remedial Coaching	26/08/2019	556	Faculty Members
Soft Skill Development	01/07/2019	2664	Training and Placement Cell
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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
2020	Career Guidance	361	676	38	501
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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
Nill	Nill	Nill

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
Cognizant Technology Solutions Limited	231	48	Tata Consultancy Services Limited	254	15
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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
2020	1	BE	CIVIL	K.S.Rangas amy College of Technology	M.E-Structural Engineering
2020	1	BE	CIVIL	Mohamed Sathak A. J. College of Engineering	M.E-Constr uction Engineering and Management
2020	1	BE	CSE	University of Hertfords hire	Master of Science-Computer Science and Engineerin
2020	2	BE	CSE	Northumbria University	Master of Science-Computer Science and Engineering
2020	3	BE	ECE	Muthayammal Engineering College	M.E-VLSI Design
2020	2	BE	ECE	Muthayammal Engineering College	MBA
2020	1	BE	IT	Muthayammal Engineering College	M.E-Computer Science and Engineering

2020	2	BE	EEE	Mahendra Engineering College	M.E-Control Systems
2020	1	BE	EEE	Muthayammal Engineering College	MBA
Nill	1	BE	CSE	University of Bedfordshire	Master of Science-Computer Science and Engineering

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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
Any Other	3

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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
Cultural Fest	Intra College Level	91
Sports Fest	Intra College Level	136
Chess	Anna University Zone	5
Ball Badminton	Anna University Zone	10
Table Tennis	Anna University Zone	4

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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
Nill	Nil	Nill	Nill	Nill	Nil	Nil

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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 Objective of the Student Council is to facilitate students in Co-Curricular, Extra Curricular Activities. It will discuss the initiatives before the implementation. After the consent of the Student Council Members, suggestions are incorporated and implemented in the Institution. Department Association: Each department have their own association in which students act as office bearers. Through this association students are encouraged to organize and participate in several events like Symposiums, Conferences, Workshops, Guest Lectures, Seminars, Project Contests, Technical Events, etc. Class Committee Meeting: Students are responsible in providing the feedback about Teaching Learning Process. One Senior Faculty of the respective Departments will be the Chairperson for the Class Committee Meeting. Six Students belonging

to Above Average, Average and Below Average Category are the members of the Class Committee. The Members of the Class Committee collects feedback and support to improve the Academic Quality. Board of Studies: Student plays a significant Stakeholder to provide Curriculum feedback in order to modify the Syllabi for the upcoming Regulations. Academic Council: Student members are invited in framing the curriculum structure. Internal Quality Assurance Cell: Students are in IQAC composition as Members. Students provide feedback about the Quality of various activities of the Institution in IQAC meetings and express their opinions. Training and Placement: Student Members are actively involved in the Training and Placement activities. The responsibility of the student members is to assist ,motivate and create positivity among their peers to meet the industry needs. Library Committee: The Student members will collect the requirements and feedback from the students for the updation in the Library. Institution's Innovation Council (IIC): The primary focus of the IIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. The student members coordinates the activities in IPR, Start-Ups, Innovation and Internships. It support students by organizing Workshops/ Seminars/ Interactions with Entrepreneurs and create a mentor pool for student Innovators in equipping latest Technologies and make them Industry ready. Discipline and Welfare Committee: It monitors the general discipline and report to the respective coordinators to protect the welfare of the students .Anti Ragging Committee: Student Members ensure the ragging less environment in the Institution. Canteen and Hostel Facilities: Student Members collect the suggestions about the Quality and Cleanliness of the Canteen and Hostel facilities and discuss in the meeting for Improvement. Internal Complaints Committee: It provides the platform for the grievances of the students. Women Empowerment Committee: The Student Members are actively work for the welfare of the female students by conducting Guest Lectures, Seminars and Awareness Programs, etc. Yoga and Meditation Committee: It promotes uniqueness within the students and integrate moral values and self-acceptance through awareness programs. In addition, students are members in various Clubs and Forums like Higher Education Cell, Green Club and Sports Club, etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Muthayammal Engineering College Alumni Association registered in 2005 (Registration Number 02/2005). The Alumni Association is to strengthen and cultivate the relationship between the Alumni, Students and the Institution. It facilitates the Institution and Students to aware about the Emerging Technological Innovations, Curriculum Development, to develop Entrepreneurship Skills and Career Progression etc.,. The Association acts as a Brand Building for the Institution by spiraling the image and prominence of the Institution in which they graduated. This helps to enrich the quality of Placement.The Department organizes Alumni interaction regularly for the students in coordination with Training and Placement Cell. The main objective of Alumni Association is to: • Encourage Social Networking and Support gatherings of Alumni in all across the Globe. • Supports the Budding Engineers by sharing their experiences in different domains. • Financial Assistance for Internship Projects and Placement of Junior Students • Maintain a directory of the Alumni • Alumni Meet is organized every year to bring the alumni's of various departments to share their memories with Institution and contribute through supporting in placement, career guidance for the present students • In addition, Alumni's are active members in the Board of Studies, Academic Council, Professional Bodies and Quality Circle etc., • Alumni Coordinators plays a significant role in organizing the Alumni Interaction activities .

Alumni supports the Institution by providing valuable feedback in various aspects like Teaching –Learning process, Research ,Innovations, Infrastructure and other Amenities.

5.4.2 – No. of registered Alumni:

10589

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

513000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Conducted an Interaction on "Cloud Business Process Services" by Ms.A.Aruna, 2018 PG batch , CSE Alumni on 29.02.2020. 2. Organized Alumni meet 2019 (Batches from 2004 to 2019) , Department of CSE on 21.12.2020. 3. Conducted an Interaction on "Staircase for Successful Professional" by Mr.K.Aravind,2015 Batch , CSE Alumni on 12.10.2019 4. Conducted an Interaction on "Carrier Guidance for the Future" by Mr.G.Previnkumar, 2019 Batch ,CSE Alumni on 28.09.2019. 5. Conducted an Interaction on "Stepping Milestone for Professional"by Ms.N.Lavanya , 2019 Batch, CSE Alumni on 28.09.2019. 6. Conducted an Interaction on"Ladder for Future Professional" by Mr.R.Aravinthkumar, 2014 Batch, CSE Alumni on 11.09.2019. 7. Conducted an Interaction on "Center for Campus to Corporate by Ms.G.Lavanya, 2019 Batch , CSE Alumni on 05.08.2019. 8. Conducted an Interaction on "Nature of Industry Requirements" by Mr.M.Sathiskumaran, and Mr.S.Vijay, 2018 Batch , CSE Alumni on 05.07.2019. 9. Conducted an Interaction on "Hacking Techniques" by Mr.K.Karthickraja, 2018 Batch, CSE Alumni on 05.07.2019.10. Conducted an Interaction on "Bar bending concepts Interview Tips" by Ms.V.Dhivya Kamachi, 2017 batch , CIVIL Alumni on 22.10.2019 11. Conducted an Interaction on "Modelling Drawing" by Mr.G.Pradeep, 2018 batch, CIVIL Alumni on 05.11.2019 12. Conducted an Interaction on "How to Prepare Government Exams" by Ms.S.Karthika, 2018 batch , CIVIL Alumni on 03.01.2020 13. Conducted an Interaction on "Internet Technology" by Mr.N.Surendar, 2008 batch, ECE Alumni on 14.09.2019 14. Conducted an Interaction on "Automation Data Analysis for Electronics Engineers" by Mr.Balasundar, 2008 batch, ECE Alumni on 28.09.2019. 15. Organized ECE Alumni Reunion 2020 on 18.01.2020 16. Conducted an Interaction on "Embedded Systems for Industrial Applications" by Mrs.R. Monisha, 2017 batch, ECE Alumni on 21.02.2020. 17. Conducted an Interaction on "The Open Source Software Develop" by Mrs.T.Santhiya, 2018 batch, ECE Alumni on 10.03.2020. 18. Conducted an Interaction on "3D Volumetric Visual Technology" by Mr.M.Srinivasan, 2011 batch, ECE Alumni on 14.03.2020. 19. Conducted an Interaction on "Interaction about future of EEE Guys"by Mr.M.Vishnukumar, 2015 batch ,EEE Alumni on 14.09.2019. 20. Conducted an Interaction on "Need of Embedded system"by Mr.M.Dinesh, 2017 batch ,EEE Alumni on 11.11.2019. 21. Conducted an Interaction on "Career Guidance and Full Stack Development" byMr.K. Aravinth and Mr.P. Gokulraj, 2016 Batch, IT Alumni on 13.07.2019. 22. Conducted an Interaction on "Transition from College to Corporate" by Mrs.Vijaya Srinivasan, 2016 Batch, IT Alumni on 26.08.2019.23. Conducted an Interaction on "Motivation and Placement Preparation for IT Department Students" by Ms.M.Bhuvaneswari, 2015 Batch, IT Alumni on 19.10.2019.24. Conducted an Interaction on "Software Development Life Cycle" by Ms.V.S.Janani, 2015 Batch, IT Alumni on 19.10.2019.

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)

The Institution promotes a culture of Decentralized Governance System for its development. The roles and responsibilities of Decentralized Management is practiced by following Organizational Structure wherein the Administration Team consists of the Secretary, Joint Secretary, Principal, Deans and Heads of Departments are vested with authority to make decisions. The Head of the Institution is empowered with Autonomy of overall monitoring of Administrative and Academic activities to accomplish the Vision and Mission of the Institution. The Head of the Institution define and delegate the responsibilities of various positions, Evaluation Process, Quality Policy and Decentralization of Governance System . The Deans and HoDs are responsible for all the academic affairs of the Department and regular monitoring of Teaching Learning Process, Curriculum Development, Research and Development, Product and Consultancy, Technology Learning, Quality Enhancement and Infrastructure Planning. The responsibilities are decentralized and are taken care by the Senior Faculty Coordinators. The Course Coordinator frame the course objectives with the consent of the subject Faculty and conducts the meeting regularly to monitor and review the Course Completion , Course Attainments and submit the report to Head of the Department. Participation of management is in practice in Strategic Planning ,Operational Level Functioning, Governing Council, Planning and Monitoring Board, Finance Committee and Internal Quality Assurance Cell. Principal meeting with Deans, HoDs and Senior Faculty Members are held at regular intervals in which Department and Institutional Level activities are discussed. Based on the discussion, continuous reforms are brought in. The Institution promotes the culture of participative management by facilitating the Faculty Members and Students to share their suggestions for further improvement. Participative Management brings amendment related to Student Enhancement, Research and Development, Examination System and Human Resource Policy for the development of the Institution. All the stakeholders are free to meet the Management/Principal to give their ideas and suggestions.

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

Yes

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
Admission of Students	Selection Procedure: Admission of Students is done as per the norms of AICTE, Anna University and Government of Tamilnadu. Mode of Selection: First Year B.E./B.Tech Programme admission is based on the cut -off marks obtained in the Higher Secondary Examinations or Equivalent Examinations. Direct Second Year (Lateral Entry) admission is based on the percentage of marks obtained in the Diploma Examinations. M.E./M.Tech Programme admission is based on the scores obtained in the Examinations like GATE / TANCET / CET. Master of Business Administration (MBA) Programme admission is based on the scores obtained in the Examinations like GMAT/ MAT / CAT / TANCET / CET.
Industry Interaction / Collaboration	Signing of MoUs with Industries for Research Projects, Consultancy,

	Placement, Internship and Interactive sessions like Seminars, Webinars and Workshops etc. Visit to Industries by faculty members for promoting and enhancing Staff Training, Student Internships, Technical Lectures, Placement and Consultancy in Design, Analysis and Testing. Periodical Visits to the Industry helps to update the Technology, its adaptation and Implementation to ensure the sheer development.
Human Resource Management	To recruit the Staff with the necessary Skills and Attributes to enable the Institution to fulfill its Aims and Objectives. Faculty Development Program is conducted within the campus and sponsoring to attend in reputed Institutions. An Induction Program is conducted for all newly joined Faculty Members. Developing Research Orientation among Faculty by sponsoring for Ph.D Programmes, Conferences and Publications. Faculty Performance Appraisal has been implemented to ensure enhanced quality. Awards and Recognition for Achievements in Teaching, Research, Administration and Innovation etc.
Library, ICT and Physical Infrastructure / Instrumentation	Library: The Central Library of the Institution is a repository of learning resources which includes Textbooks, Reference Books, National and International Journals, Digital Resources etc. With the support of Impress Software the Central Library is made Automated System for Book/Journal Transactions and for tracking resource availability. In addition, each department has library for easy and quick access of resources to the students. ICT: ICT is utilised for e-governance and for conducting of Online Courses to enhance the Teaching Learning Process. Infrastructure: Seminar Halls with Air-Conditioners, Audio-Visual facilities and Video Conferencing facility. Laboratories are equipped with Academic and Research needs, which will enrich skills by conducting Workshops, Trainings and Seminar Series on Cutting Edge Technologies like Artificial Intelligence, Block Chain, Tools and Techniques. Further it facilitate Hands-on Experience to Learning, Real Time Projects and Product Development. The

	Central Library, Department Libraries, Guest Rooms, Medical Centre, Sports Club,DTP Centre, Cafeteria, ATM, Vehicle Parking ,etc., available for Students and Faculty. Fire Extinguishers and First Aid Kits are kept at various points for safety measures..
Research and Development	ECE,EEE and Mechanical Departments are recognized as Research Centres by Anna University, Chennai for Collaborative Research. Institution has received Grants from various external funding agencies like CSIR, DST, AICTE, DRDO, ICMR etc. Consultancy Activities are encouraged to acquire knowledge in their domain. Faculty are encouraged to submit proposals to various funding agencies and Research Publications in Scopus ,Web of Sciences,SCI Journals, IEEE/IET Conferences etc. Patents are filed and published in different domains.Industry Linked Laboratories are established with the support of Industries such as Texas Instruments Innovations Lab, Wipro Mission 10X Lab and Vi Microsystems Lab.
Examination and Evaluation	As per the guidelines of UGC, AICTE and Anna University the Regulations are framed. Continuous Internal Assessment Test (CIA) conducted periodically and Answer Scripts are evaluated through Central Valuation. Question Paper Scrutiny with External Experts. Revised Blooms Taxonomy based CIA and End Semester Question Papers. Conduct of Central Valuation with Experienced Subject Experts (Internal and External). Updation of Evaluation Process as per Curriculum Requirement. Provisions for Revaluation of Theory Examination within a stipulated period.
Teaching and Learning	ICT Tools are utilized for better learning experience for supplementing course delivery. Muthayammal Virtual Learning Centre (MVLC) is effectively used to enhance the Teaching and Learning Process. MuDiL (Multi Disciplinary Lecture) is used to acquire knowledge in all domains. Outcome Based Education System is Implemented. Students are encouraged for Field Projects, Internships and on the Job Training. Flexible assessment options in Open Electives and NPTEL Courses are opted by the students. Mentoring and Remedial Classes for Slow

Curriculum Development	Based on the feedback obtained from the Stakeholders like Alumni, Industry Experts and Students the curriculum for all UG and PG courses are revised at regular intervals to keep abreast of developments in the respective programme. Choice Based Credit System is followed for students where flexible options are available for them to learn. Board of Studies meeting has been conducted periodically for discussing and validating the Syllabus Contents.

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

E-governace area	Details
Examination	COE Administration : Pre Examination Process: • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination Timetable Hall Ticket Generation. • Examination Attendance Generation. • Checklist Generation, Flip and Foil Cover Generation • Attendance Verification and Despatch Generation Post Examination Process: • Practical Mark Entry • Dummy Number Generation Bundle Number Generation • Examination Mark Entry Galley Generation • Result Passing • Grade Sheet Generation • Award of Degree Report Generation • Revaluation recommendation by faculty through online • Central Valuation • Result Publication through online • Optional Arrears Registration • Soft Copy of Answer Booklets • Result Analysis for the CIA Test and Model Exam • Certificate Issuance • Performance Reports, Access Reports, Online Entries and Enquiries • Selection of Elective Subjects under CBCS
Planning and Development	Planning and Development Cell focuses on preparing the Strategic Plan of the Institution and coordinating the Quality Assurance Initiatives like NAAC Accreditation, NBA Accreditation ,Academic and Administrative Audit. E-governance is implemented for environmental friendly initiatives by communicating to the departments. The information related to Academic Meetings, Minutes of the Meeting, Audit Guidelines and Documents related to Accreditation etc., are communicated.

Administration	Modules of ERP are implemented for the general Administration of the Institution: • Students Attendance • Students Academic Records • Examination Module • Online Examination • Marks Entry and Mark Sheet Printing • Result Publication • Issue of Transfer Certificate etc. • Students Transport Facilities • Hostel Admission ,Accommodation and Attendance • Staff Attendance • Library Facilities such as Library Stock Maintenance • OPAC • Issuing of Books and return of Books using Barcode • Journals entry and maintenance • Check in Check out facilities • HR Management
Finance and Accounts	• College Fee Collection • Students Due List • Merit Scholarship List • Bus Fee Collection • Hostel and Mess Fee Collection, Payroll, Bills ,Payments and Daily Accounts.
Student Admission and Support	• Students Attendance Entry and Report Generation • Academic Management Student Admission and Support : • Students Application Registration • Scrutinizing of Applications • Selection Module • Ranking • Students Past Academic Records • Automatic SMS delivery to the Parents for attendance of their wards, Students Performance in the CIA Test, e-circular etc.,

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.S.Saravanan	6th International Conference on Engineering and Technology (ICET-2020), Organized by Selvam College of Technology, Namakkal.	The Institution of Engineers (India)	1000
2019	Dr.R.Prakash	International Conference on Applications of MEMS, Nano, and Smart Materials (ICMNSM-2019), Organized by	The Institution of Engineers (India)	2000

2020	Dr.N.Mohananthini	2nd International Conference on Recent Trends in Engineering and Scientific Technology (ICTEST 2020), Organized by RVS Technical Campus, Coimbatore	The Institution of Engineers (India)	1000
2020	Dr.R.Sagayaraj	6th International Conference on Engineering and Technology (ICET–2020), Organized by Selvam College of Technology, Namakkal.	The Institution of Engineers (India)	1000
2020	Dr.G.Vijayakumar	6th International Conference on Engineering and Technology (ICET–2020), Organized by Selvam College of Technology, Namakkal.	The Institution of Engineers (India)	1000
		[View File](#)		

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	AICTE-ISTE– STTP Engineering Education : Pedagogical Issues And Outcome	Training on Open Source Software Installation	10/02/2020	16/02/2020	30	6

					32	5
2020	AICTE-ISTE- STTP Quality Teaching Strategies for Outcome Based Education	Testing and Service of Equipments	17/02/2020	23/02/2020	32	5
2020	AICTE-ISTE- STTP Quality in Engineering Education: Need for Activity Based Teaching Learning	Hands on Training Calibration of Electrical Measuring Instruments	09/03/2020	15/03/2020	30	2
2019	Seminar on Outcome based Education-Importance, Implementation and Challenges (OBE-IIC)	Hands on Training on Brick Masonry	31/10/2019	31/10/2019	15	10
2019	Seminar on the Application AI and Machine Learning for Rural Health care: A Research Direction	Hands on Training on Plumbing	23/12/2019	24/12/2019	8	8

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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
Hp Life E-Learning-Online Course on 3D Printing	24	07/04/2020	07/04/2020	1
Online Course	15	14/04/2020	14/04/2020	1

on Deep Learning Onramp				
Online AICTE Recognized FDP on Image and Embedded Processing	9	11/05/2020	15/05/2020	5
Seminar on Cloud Computing Basics	30	08/04/2020	08/04/2020	1

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
294	294	157	157

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
? Incentives for Research,Publications, Sponsored Projects and Consultancy works ? Free Transport Facility ?Maternity Leave, Medical Leave ? Employees Group Insurance ?Salary Advance ? Gift Voucher for Marriage ? Financial support to attend FDPs,Workshops,National and International Conferences ?Ph.D. allowance for those who have completed Ph.D. ?Yearly Performance Incentives and Special Incentives	?Maternity Leave ?Medical Leave ?Free Transport Facility and Group Insurance ? Salary Advance ?Gift Voucher for Marriage ?Yearly Performance Incentives and Special Incentives	?Tamil Nadu Government Fee Waiver Scheme for First Graduates ? Government Scholarship ?METRF Scholarship ? Group Insurance ? Support for attending Seminars, Conferences and Design Contests etc.,

6.4 – Financial Management and Resource Mobilization

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

Yes. The Institution accounts are audited at regular intervals. The Institution has been following Annual External Auditing System. The accounts and other related documents have been audited by an External Auditor every year. Internal Audits are conducted by the accounts section of the Institution. All Bills,Payments and Vouchers are audited by an Internal Auditor. External Audit is conducted by a Registered Chartered Accountant Firm.

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
Radha Electrical, Thimmanayanpatti	20000	Fund Received For Student Project Titled

		Smart Solar Grass Cutter using Lawn Coverage

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6.4.3 – Total corpus fund generated

37850000

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	External Academic Audit Committee	Yes	IQAC
Administrative	Yes	Auditors	Yes	IQAC

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

? Parent – Teacher Association is effectively functioning in the Institution for the benefit of students. ? As part of this Association, Parent – Teacher Meeting is being conducted in the department every semester. ? Various matters have been discussed in the meeting such as, Academic Plan, Co-Curricular Activities, Autonomous Process and Student Welfare. ? The Department Advisory Board has Parent Nominees in which parents are actively participating for the effective implementation of Curriculum and Outcome Based Education.

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

? Training on Open Source Software Installation ? Testing and Service of Equipments ? Hands on Training for Calibration of Measuring Instruments

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

? Academic and Administrative Audit ? Revision in Syllabus and Curriculum ? Increase in ICT Enabled Classrooms ? Collaborative efforts for Faculty and Student with Industry ? Institutions Innovation Council is established to encourage the students towards Innovative Ideas ? Technology Learning Group activities are initiated to enlarge the spectrum of knowledge in major domains

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

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	IQAC Meeting – I	10/07/2019	10/07/2019	10/07/2019	23
2019	Skill Enhancement Program	21/08/2019	21/08/2019	21/08/2019	312
2019	Research M	30/08/2019	30/08/2019	31/08/2019	102

	ethodologies and Document ation				
2019	Effective usage of Online Resources in the Digital Era	25/09/2019	25/09/2019	25/09/2019	52
2019	Human Values, Corporate Expectations and Vibrant Managers, Em ployability Skills	05/10/2019	05/10/2019	05/10/2019	112

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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
A Motivational Talk on "?????? ??????????"	25/01/2020	25/01/2020	282	Nill
International Women's Day –2020–I am Generation Equality: Realizing Women Rights"	07/03/2020	07/03/2020	528	Nill
An "Awareness Programme on Adolescent Health"	08/11/2019	08/11/2019	212	Nill
Interaction Programme for "Student Virtues"	11/11/2019	11/11/2019	124	Nill
Interaction Programme for Student Virtues	12/11/2019	12/11/2019	114	Nill
A Motivational Talk on " Your Limitation –it's only your	13/11/2019	13/11/2019	131	Nill

Imagination	

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

Muthayammal Engineering College has initiated to develop "Green Energy" by Installing 50KVA Solar Power Generation System. Our Institution met 24 Percentage of the total Energy Consumption. Total Cost of the Project is Rs.30 Lakhs. Swatch Bharat is being followed in our Institution. Collection of the wastes such as Paper, Material Waste ,e-Waste etc ., for recycling. Rainwater Harvesting is an important initiative taken to save rain water.

7.1.3 – Differently abled (Divyangjan) friendliness

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

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	1	1	01/11/2019	115	PMKVY-Shuttering Carpenter Conventional	Wooden Shutter board along with carrying shuttering work for RCC structure using conventional formwork	25
			View File				

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Faculty and Supporting Staff Hand Book	09/05/2019	Hand Book provides Policies and Procedures,Transparency,Code of Conduct,HR Policy and Value of Ethics in the Institutio
Students Hand Book	07/05/2019	HandBook containing the Vision and Mission of the Institution, Rules and Regulations,Quality Policy, Code of Conduct, Faculty Details, Placement Details, Achievements of Faculty and Students.
Anti-Ragging Committee	29/04/2019	Anti-Ragging Committee Meeting is conducted as per the guidelines of UGC.To be vigilant at all hours all around the campus and other vulnerable places the committee is empowered to inspect such places.To make surprise visit to hostels and other places vulnerable to incidents and having the potential for Ragging.The Institution obtain undertaking from both Students and Parents on Anti-Ragging.The mobile number of Squad Members are displayed in major places of the Institution.
Grievance Redressal Cell	02/05/2019	The Grievance Redressal Cell will receives the grievances and suggest the final action to be initiated at the institutional level for the redressal of the same. Faculty and Students may approach the Committee Members, if they have any grievance regarding Academic and Non-Academic matters and the committee will take up indispensable action. The grievances at departmental level are solved by the concerned

| | Mentors,Class Coordinators and Department Heads then and there.The Institution is always active to ensure the Safety and Welfare of the Students and Faculty. |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness Program- Postal Schemes and Employment Registration	10/08/2019	10/08/2019	250
Independence Day Celebration	15/08/2019	15/08/2019	150
World Without Engineers-Unimaginable	14/09/2019	14/09/2019	115
Fit India Movement Pledge	29/09/2019	29/09/2019	250
Smart Walk- National Sports Day Celebration	29/09/2019	29/09/2019	150
Tree Plantation	01/10/2019	01/10/2019	100
Psychological Motivational Programme	13/07/2019	13/07/2019	95
Free Dental Camp	20/07/2019	20/07/2019	316
Organ Donation Rally	31/07/2019	31/07/2019	324
Campus Cleaning Awareness	03/08/2019	03/08/2019	100
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

? Awareness Program to Save Rain Water ? Campus Cleaning through Swachh Bharat Abhiyan ? Digital India Awareness Program ? Awareness Program for COVID-19 ? Reducing the use of Paper (Online Feedback Forms) ? Tree Plantation on Gandhi Jayanti Celebration

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice : Technology Learning Group -TLeG Goal : • To establish various Technical Training Group • To focus on advance learning by Students through Technical Lecture, Tech Talk, Seminar and Interactions • To Motivate the Students to being masters in the domain of their interest • To encourage students to present paper and project in chosen Domain. The Context: The Student are expected to be expert in minimum of two or three Emerging areas or Technology to become Employable in the fast Challenging Environment. Keeping this in view, we at Muthayammal Engineering College identified more than 50 emerging areas in various Disciplines to make students Employable. The Activities of each group includes Domain Knowledge sharing by Group Lead

(Faculty Member). Interaction among the Students to enhance the content, improving the presentation skills through various activities and attending Guest Lectures by Domain Expert. The Practice: • Each group is formed with 25 interested Students • Students from various Department are Encouraged to enhance Multidisciplinary Discussion • Regular interactions and review meetings are organized by Group Lead • Certification by the Students in the Domain are encouraged. Evidence of Success: • In 2019-20, 50 Technology Learning Groups have been formed with 1310 Students • Students of TLeG are received 1450 Certificates in Multidisciplinary Domain. Problem Encountered and Resources Required: This Best Practice is very much useful and Students were effectively utilizing the opportunity. The implementation of this practice is very simple because resources (Faculty Member and Laboratory Facilities) are available within the Campus. Title of the Practice: Multidisciplinary Lecture by Faculty Members (MuDiL). Goal: • To enhance Inter-Department Collaboration • To interact and identify Inter-Disciplinary activities like Real Time Projects. The Context: Students are expected to have Multidisciplinary Knowledge to serve in Industry. Hence the students are to be provided opportunity to learn and understand the importance of working in a team of people with different Engineering Discipline. This has motivated to provide the opportunities for the Students to interact with the Faculty Members and Students of other Departments to equip themselves with Multidisciplinary Knowledge. The outcome of this idea has resulted in Multidisciplinary Lecture Series(MuDiL). The Practice : • The Faculty Members are assigned the responsibilities to interact with the Students of other Engineering Department. • The Faculty Members will interact with the students and motivate them to share their ideas for formulating the project problems • Minimum of three Inter-Department interaction are Scheduled for Faculty in the Institution. • To transform the thoughts into Idea and Idea into Problem Statement . Evidence of Success : • 95 Multidisciplinary Projects have been done by the Students . Problem Encountered and Resources Required: MuDiL doesn't involve any cost or any new Resource except the Faculty Technical Interaction. Title of the Practice: TASTE – Teacher's Associated Seminar Towards Excellence (By the Teachers for the Teachers) Goal: • To make the Institution as a Centre of Excellence in Teaching • To enhance the Teaching Methodology with Innovation • To improve the Confidence and Presentation Skill of the Faculty Members • To ensure the Interaction with Co-Faculty for Multidisciplinary Activities Objectives: • To enhance the Presentation Skill of the Faculty Members • To interact with Senior Professors on Teaching Methodology • To deliver the lecture to the Peer Group for improving the Teaching Ability • To learn Do's and Don'ts during the Technical Teaching • To enhance the confidence and continuous progress in Teaching Learning for the benefit of the Students Methodology: • Faculty Members are identified to deliver the Talk • Monthly Schedule is prepared for Presentation and circulated among Faculty Members • Presenter is informed to submit the Seminar Topic with the content of delivery • Invitation is sent well in advance to all Faculty Members, to attend the seminar to enrich their Knowledge • Record of the daily activity is maintained in the Institution • Speaker is provided with Feedback for further improvement if necessary • Faculty Members who have Presented / Shared the information are provided with Certificates Evidence of Success : Seminar has enhanced the Teaching Learning by the Faculty Members and also motivates them to have more interaction with other Department Colleagues for MultiDisciplinary activities. To mention, few success Outcomes of the Seminar (TASTE) • 207 Seminars are delivered by Faculty Members • Average of minimum of 50 Participants are benefited daily. As a result, around 10,000 Participants are benefited. • 207 different topics were discussed in common forum which resulted in number of Multidisciplinary Student Projects. • Quality of Teaching has enhanced. Problems Encountered and Resources Required : No cost involved. Hence no problem encountered. The Human Resource (Faculty Members) are only required. Title of the Practice: MKC Learning–Must Know Concepts – Learning and

Practicing Goal: • To ensure that the Students learn the concepts in all subjects without any Ambiguity • To enhance the Oral Presentation Skill with clear Concept Objectives: In general, the Students learn the subjects with the focus on Examinations and it is unfortunate to know that most of the Engineering Graduate concentrates on few subjects and give less importance for the majority of the subjects. Keeping this in view, we, at Muthayammal Engineering College focus on ensuring the concept Learning and Practicing to enhance the subject Knowledge with Concepts. Implementation: • Faculty prepares the Must Know Concepts for every Subject • MKC is discussed and shared with Students • Oral Examination by the Faculty Members is conducted for each Student for every Subject • Outcome of Oral Examination is been considered for Continuous Internal Assessment Evidence of Success : • Subject Knowledge is Augmented • Useful for Advanced Learning • Innovative Projects by Students • Understanding and Explanation Capacity of the Students increased • Level of Confidence is improved Problems Encountered and Resources Required: No Problem is found so far. This may be due to appreciation by Students and Faculty. Resource material required is prepared by the Subject Faculty.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://mec.edu.in/wp-content/uploads/2021/07/Best-Practices-2019-20.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 thrust in not more than 500 words

The vision is to have effective collaboration with the Industries for the benefit of the Students and Faculty Community. The Industry Interface has been established and utilized for various academic activities in the campus. Memorandum of Understanding (MoU) : Institution has signed MoU with 21 Industries for various activities including the Visits by Students and Faculty Members for Discussions, Consultancy Work and Student Projects. The Internship, Summer Inplant Training and Expert TechTalks are provided. Students Industry Projects: Every year more than 25 of the Student Projects are done with the technical guidance of the Industry Experts. 45 Industry Projects have been done by the 2020 Passout batch students. Consultancy Projects for the Industries: The Faculty Members submit the proposals to provide the solutions for the Industries after the discussion. In the academic year 14 Consultancy Projects were completed . Industry Connect for Academic Activities: The Industry Experts are involved in Curriculum Development, Board of Studies, Student Project Evaluation, Development of Industry Linked Laboratories, Technical Training, Value Addition of Courses and Technical Talks. Technology Learning Groups (TLeG) supported by Industry Experts: 50 Technology Learning Groups (50G) with more than 1300 students are established to learn the State-of-the-Art Technologies. The Industry Experts update the knowledge of the students to equip themselves to become industry ready. MultiDisciplinary Lecture (MuDiL): To enhance Inter-Department /Inter-Disciplinary activities like Mini Projects and Major Projects are encouraged. The Students are motivated towards Multidisciplinary Knowledge to serve in Industry. Hence the students are provided with opportunity to learn and understand the importance of working in a team of people with different Engineering Discipline. The students are able to enhance their Skills in problem solving and problem statements from the industries. Industry Linked Laboratories : The identified Labs are linked with Industries to enhance the facilities.The outcome has shown better utilization in the Academic activities as well as in the Consultancy Projects. Entrepreneur and Start-ups: The Industry Experts guide the students to excel in idea generation and the incubation of ideas for developing the products. Alumni Association: It facilitates the Institution and students to aware about the

Emerging Technological Innovations, Curriculum Development, to develop Entrepreneurship Skills and Career Progression etc., This Association acts as a Brand Building for the Institution by spiraling the image and prominence of the Institution in which they graduated.

Provide the weblink of the institution
https://mec.edu.in/wp-content/uploads/2021/07/Institutional-Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

• Institutional and Programme Level Accreditation for Eligible Departments • Focus on Institutional Awards and Ranking by various Reputed Organizations • Research Centre Recognition from Anna University for all eligible Departments • Focus on Funded Research Projects from Government and Non-Government Organizations • More than 200 Research Publications by Faculty Members • Planning for Minimum of 25 Patents for 2020-21 • More Technical Books/Chapters Publication • More Faculty and Students Awards and Recognition • Establish Industry Linked Laboratories/ Centre of Excellence/ Incubation Centres /Startups in each Department • Enhance Consultancy Projects • Inviting minimum of 50 International Speakers for Academic and Research Collaborations • 50 Collaboration Activities with Industry/Institution for Research, Faculty and Student Exchange • More than 1000 Programs for Students and Faculty Members • Minimum of three Technical Certification by every Students • Increase the Industry Supported Student Projects from 10 to 20 percentage • Achieve more than 90 percentage of Placement for the Students