Yearly Status Report - 2017-2018

<table>
<tr><td colspan="2" align="center">Part A</td></tr>
<tr><td colspan="2">Data of the Institution</td></tr>
<tr><td>1. Name of the Institution</td><td>MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)</td></tr>
<tr><td>Name of the head of the Institution</td><td>Dr.S.Nirmala</td></tr>
<tr><td>Designation</td><td>Principal</td></tr>
<tr><td>Does the Institution function from own campus</td><td>Yes</td></tr>
<tr><td>Phone no/Alternate Phone no.</td><td>04287226837</td></tr>
<tr><td>Mobile no.</td><td>8754008537</td></tr>
<tr><td>Registered Email</td><td>principal@mec.edu.in</td></tr>
<tr><td>Alternate Email</td><td>coe@mec.edu.in</td></tr>
<tr><td>Address</td><td>Kakkaveri, Rasipuram</td></tr>
<tr><td>City/Town</td><td>Namakkal</td></tr>
<tr><td>State/UT</td><td>Tamil Nadu</td></tr>
<tr><td>Pincode</td><td>637408</td></tr>
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2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**27-May-2016**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr.G.Selvakumar**
Phone no/Alternate Phone no.	**04287220837**
Mobile no.	**9965531515**
Registered Email	**iqac@mec.edu.in**
Alternate Email	**coe@mec.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.mec.edu.in/pdf/AQAR_2016-17.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 :	http://www.mec.edu.in/

5. Accrediation Details

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

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**04-Jun-2015**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
IQAC Meeting 1	**14-Jul-2017**	**16**

	1	
Preparation of AQAR report for the academic year (2017-18)	**20-Jul-2017 1**	**32**

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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
No Data Entered/Not Applicable!!!				

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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)

• Coordinating with various statutory and nonstatutory bodies of the institute in the transformation from Affiliated Status to the Autonomous Status • Coordinating with the conduct of Board of Studies meeting • Coordinating with the conduct of Academic Council Meeting • Internal and External Academic Audit • Orientation Programme for the 1st year Students • Coordinating with Continuing Education Cell of the Institute in Organizing Faculty Development Programmes • Monitoring the Outcome Based Education Process • Coordinating in the renewal process of NBA, NAAC and Autonomous status • Promoting ICT based Teaching – Learning Promoting Research attitude among faculty and students

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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
Plan of action for the academic year 2017 – 2018	College level and department level meetings were conducted and the planned activities were executed
Monitoring of Continuous implementation of NBA and NAAC expectations	The NBA and NAAC expectations are brought into the system and the implementation of the same is being monitored on a regular basis
Assessment of COs, POs and PSOs	Assessment of attainment of COs, POs and PSOs were carried out by the Course Committee and the same was monitored by the Department Advisory Committee
Faculty Development Programmes	1. Induction Training Programme on Nuances of Engineering Teaching was organized for the new faculty members 2. A FDP on Team Building was organized on 25th and 26th June, 2018 in association with ICTACT.
Effective implementation and usage of Muthayammal Virtual Learning Centre (MVLC)	The faculty members have uploaded all the course materials and the students are effectively using this facility
Orientation Programme for the 1st year Students	The orientation programme for the 1st year students for the academic year 2017–2018 was organized on 07.08.2017 and 08.08.2017
MSME Business Incubator	The 1st meeting of the Local Selection Committee of MEC Business Incubator was held on 10.02.2018 at 10.00 AM at Research Lab of ECE Department of Muthayammal Engineering College to approve/recommend the innovations submitted by the incubatees under the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubator". Presentations were made by 32 incubatees and the ideas of 6 incubatees were forwarded to The Office of Development Commissioner, MSME, New Delhi.
International Conference with financial support from funding agencies	An International Conference on "Innovations in Science, Engineering and Technology for Sustainable Development (ISETSD–2018) was organized on 30th and 31st March, 2018 sponsored by Science and Engineering Research Board, Department of Science and Technology.
[View File](#)	

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Council	**05-Mar-2018**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	**21-Apr-2017**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2017**
Date of Submission	**14-Dec-2017**
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 improve the productivity of our institution towards paperless administration, IMPRES ERP software serves as a perfect solution. • Student Management • Academic Management • Online Learning Management System • Hostel Management • Central Library Management • Finance Management • COE Administration • Certificate Issuing • Online web portal for staff and students • Students' attendance entry and report generation**

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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
No Data Entered/Not Applicable !!!		
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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	23/02/2018
BE	Computer Science and Engineering	23/02/2018
BE	Electronics and Communication Engineering	23/02/2018
BE	Electrical and Electronics Engineering	23/02/2018
BE	Mechanical Engineering	23/02/2018
BTech	Information Technology	23/02/2018
ME	Computer Science and Engineering	23/02/2018
ME	Communication System	23/02/2018
ME	VLSI Design	23/02/2018
ME	Power System Engineering	23/02/2018
ME	CAD/CAM	23/02/2018
MBA	Master of Business Administration	23/02/2018

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
Android Application Development and Fire base Technology	10/08/2017	90
Java and J2EE	15/09/2017	75
Impact of Digital Technologies for Managers	26/09/2017	54
AutoCAD	04/12/2017	26
Certification Course on Business Analytics for Managers	13/12/2017	56
Circuit Design Using Electronic Simulator	29/12/2017	15
Total Station	05/02/2018	83
Bar Bending Techniques	06/02/2018	83
Solar Power Plant	13/11/2017	40

	Design		
Arduino and Processing	15/02/2018		40

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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	Computer Science and Engineering	4
BE	Electronics and Communication Engineering	15
BE	Electrical and Electronics Engineering	20
BE	Mechanical Engineering	16
BTech	Information Technology	8
MBA	Master of Business Administration	59

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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

• Feedback has been collected from all the stakeholders periodically and analyzed. The feedback on Curriculum design aspect is collected annually from students, faculty, alumni, parents and employers. • Necessary improvements to be made in the curriculum was discussed in several forums such as Program Assessment Committee, Department Faculty Meeting and Department Advisory Board. • Board of Studies recommend the curriculum for approval of Academic Council. • Suggestion of the Alumni members are collected through feed backs and are incorporated in the curriculum development and infrastructural development. • Every semester the students give feedback about the Course, the Course Instructors and the Course Outcomes. All the students in each class, are instructed to participate in the evaluation system periodically twice in each semester. • Suggestions are obtained from the graduating students about the attainment of Program Outcomes and analyzed to assess the attainment of Program Outcomes. Employers give feedback about the alumni working in their organization regarding the attainment of Program Outcomes. • Assessment of attainment of Program Educational Objectives is done through the feedback collected from the alumni and the employers after 4 to 5 years of graduation. During campus recruitment feedback is obtained from the recruiters about the performance of students. • Parents meetings are conducted every semester to get feedback from the parents. The suggestions of the Parents, regarding academic performance, placement, infrastructure facilities, etc., are discussed in the

Parent Teachers meeting. • Issues are directly taken care of by the Principal and the Management. The grievances are well received and remedial actions are taken. Faculty also gives self evaluation about the teaching learning evaluation which helps for the faculty performance appraisal and for making improvements in the teaching learning process. • Feedback of the student supports to modify the teaching and learning methodologies. Corrective measures are initiated based on the feedback.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical Engineering	180	250	121
BE	Electrical and Electronics Engineering	120	190	65
BE	Electronics and Communication Engineering	180	270	116
BE	Computer Science Engineering	120	118	93
BE	Civil Engineering	120	90	31
BTech	Information and Technology	60	90	24
MBA	Master of Business Application	60	70	45
ME	Computer Science Engineering	36	30	10
ME	Communication Systems	24	40	7
ME	VLSI Design	18	50	11
ME	Power Electronics and Drives	24	40	8
ME	Power System Engineering	18	30	6
ME	CAD/CAM	18	30	6
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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	Number of students enrolled	Number of fulltime teachers	Number of fulltime teachers	Number of teachers

	in the institution (UG)	in the institution (PG)	available in the institution teaching only UG courses	available in the institution teaching only PG courses	teaching both UG and PG courses
2017	2333	187	214	29	5

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
243	243	3	5	8	4
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentoring for students is the most important factor that determines the success of students' education. All the faculty members are involved in mentoring the students.12 students are assigned to a mentor for the individual counselling. The students are counselled by their mentor at least thrice in a semester to identify and analyze the student's problems both in academic and personal. The identified problems were discussed with students and suitable remedial measures were taken. The students who are specialized in any particular area namely sports or other activities are identified and they are motivated to develop their hidden talents. • The students are counselled on the basis of their performance in the academic. Records will be maintained properly and submitted to the HOD. HOD, in turn forward to the Principal periodically • The poor performers in academic [Special Attention Group (SAG)] are instructed to attend the special coaching classes after the college hours. • Motivational programmes are provided to the students to enable them to improve the quality of education. • Counselors advice the students to comprehend the program curriculum. In addition help their students to make a full course study plan that activates the students' active learning. Counselors for each group should know thoroughly the capability and circumstances of each student to provide appropriate guidance. • The importance of practical knowledge in engineering and problem solving capability is provided to the students. • Students are guided towards the placement activities and motivated to attend the placement training programmes. • Mentor will provide guidance for higher education and suggest them to prepare for exams.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2520	243	1:12

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
243	243	Nill	59	28

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
2018	Dr.S.Saravanan	Professor	IE(I) Best Faculty Advisor
2018	Prof.K.Sudha	Associate	IE(I) Best

2018	Prof.S.Gopal	Professor Assistant Professor	Faculty Award IE(I) Best Faculty Award

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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
No Data Entered/Not Applicable !!!				

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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)

http://www.mec.edu.in/

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
UG	BE	Mechanical Engineering	199	138	69.33
UG	BE	Electrical and Electronics Engineering	105	55	52.38
UG	BE	Electronics and Communication Engineering	89	37	41.57
UG	BE	Computer Science Engineering	74	48	64.86
UG	BE	Civil Engineering	89	45	50.56
UG	BTech	Information and Technology	26	21	80.76

PG	MBA	Master of Business Application	54	54	100
PG	ME	Computer Science Engineering	8	8	100
PG	ME	Communication Systems	3	3	100
PG	ME	VLSI Design	7	6	85.71
PG	ME	Power Electronics and Drives	4	4	100
PG	ME	Power System Engineering	8	8	100
PG	ME	CAD/CAM	3	3	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)

http://www.mec.edu.in/

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.V.Rajendran
View File

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
No Data Entered/Not Applicable !!!				

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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

Projects sponsored by the University	365	METRF	3	3
Minor Projects	365	TNSCST	0.07	0.07
Students Research Projects (Other than compulsory by the University)	365	Smart India Hackthon Tamilnadu Innovations Grand challenge	1	1

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0

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
Applications of Mathematical Modelling and Simulation in Engineering Problems	MECHANICAL	31/08/2017
Human Factors and Ergonomics in Healthcare and Patient Safety	MECHANICAL	14/09/2017
Recent Advances in Cryogenics and Its Industrial Applications	MECHANICAL	06/10/2017
Innovative Technologies in mechanical Engineering	MECHANICAL	07/10/2017
Value added course 'AUTO CAD'	MECHANICAL	04/12/2017
Soft Actuators for Robotic Applications	MECHANICAL	27/12/2017
Faculty Training program for " Solid works, CATIA,CREO,ANSYS	MECHANICAL	18/12/2017
Improving Welding Quality through innovative Simulators	MECHANICAL	22/02/2018
3D Printing – Hands on training	MECHANICAL	14/03/2018
Electrical Wiring Harness	MECHANICAL	23/03/2018
Impact on GST	MBA	09/10/2017
Career Sucess" Dream!Design!Destiny!On	MBA	13/10/2017

Entrepreneurship:An Overview	MBA	02/11/2017	
Do the Young Entrepreneurs or Investors Aware of Financial PlanningSEBI's Overview	MBA	22/03/2018	
Seminar on Industrial Energy Auditing	EEE	01/09/2017	
One Day Workshop on Photovoltaic Solar Power Plant Design And Optimization	EEE	09/09/2017	
National Level Workshop On Power System Studies Using ETAP	EEE	22/09/2017	
Seminar on Electrical Power Supply and Demand: Bridging techniques	EEE	10/01/2018	
Seminar on Sustainable Development and Renewable Energy	EEE	12/02/2018	
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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
Faculty advisor	Dr.S.Saravanan	Institution of Engineers India	27/03/2018	Best Faculty Advisor Award
Innovative Research	Dr.S.Saravanan	Society for Engineering Education and Environment	23/09/2017	Dr.Abdul Kalam Award
Best Faculty Advisor Award	Prof.K.Sudha	Institution of Engineers India	10/03/2018	Professional Society
Intelligent Borewell Monitoring System using IOT	N.Naveenkumar	Smart India Hackathon 2018	23/02/2018	Innovation Award
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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
No Data Entered/Not Applicable !!!					
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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
CSE	1
EEE	2
MBA	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)
National	CIVIL	2	1.2
International	CIVIL	4	1.5
International	ECE	4	0.15
International	EEE	1	2.04
International	MECHANICAL	4	0.5
International	IT	1	1.36
International	MBA	17	3.44
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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	3
ECE	5
MBA	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Smart Trash can with Electric Motor Compression Apparatus	Published	2017410410	16/11/2017
Method and System for Remotely Adjusting Height and Angle of a wall mounted Television Fixture	Published	2017410410	13/04/2017
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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
No Data Entered/Not Applicable !!!						
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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
No Data Entered/Not Applicable !!!						
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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	26	87	12	22
Presented papers	45	8	31	8
Resource persons	Nill	Nill	1	Nill

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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)
0	0	0	0

View File

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
0	0	0	0	0

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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	2	100
Environmental Awareness	NSS	2	150
Planting Vettiver	NSS	2	100
Rain Water Recharge Pit Filling	NSS	2	100
Dengue Awareness Rally	NSS	2	150

Save WaterRally	NSS	2	150
Waste Management	NSS	2	200
Road Safety Awareness	NSS	2	200

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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
0	0	0	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
No Data Entered/Not Applicable !!!				

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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
0	0	0	0

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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
Job Training	PLC panel work	IOLOGIX Automation Chennai	25/01/2017	02/02/2017	Students
In Plant Training	Application Software Development	Unique technologies Pvt.Ltd, Coimbatore	26/09/2017	28/09/2017	Students
Internship	IT Product Development	Consensus Technologies Pvt.Ltd, Coimbatore	01/12/2017	05/04/2018	Students
Internship	Industry and Product level	GODB Technologies Chennai	22/01/2018	22/01/2018	Students

In Plant Training	Software Development/IOT	Kaashiv Info Tech,Chennai	01/12/2017	11/12/2017	Students
In Plant Training	Network Maintenance Department	Conquersoft Communications Pvt.Ltd, Hosur	27/11/2017	01/12/2017	Students
Internship	HR	Virtusa Consulting Services Pvt.Ltd.,	01/02/2018	30/04/2018	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
Civil Engineering Academy, Salem.	05/03/2018	Onsite Training,Planning, Drafting,Estimation ,Certification courses,Student Project	113
Paloalto,Chennai	18/03/2017	Internship, Project, Placement, Value added course	110
Bule sea power solution pvt ltd	01/09/2017	Inplant traning, Industrial Visit	75
PROLIFIC Private Ltd., Coimbatore	01/11/2017	Value Added Course	50
Black Board Learning	27/09/2017	Internship, Project, Placement, Value added course	118
National Institute of Technical Teachers and Research (NITTTR),Chennai	05/03/2018	Research and Development Training for Faculties	23

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
113534868	113250000

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing

Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Video Centre	Existing
Classrooms with LCD facilities	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Impres Dolpnin Software	Partially	1.0	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Journals	368	491368	2093	2555047	2461	3046415
e-Journals	14107	421650	24072	1129392	38179	1551042
Text Books	38841	9085770	161	38156	39002	9123926
Reference Books	6050	2420750	60	14420	6110	2435170
e-Books	2912	23000	56	6500	2968	29500
Digital Database	13328	421650	100	5000	13428	426650
CD & Video	2100	21000	10	300	2110	21300
Weeding (hard & soft)	1247	374100	30	9000	1277	383100
Others(specify)	40320	288000	3600	39630	43920	327630
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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
All faculty	Moodle,MVLC	LMS	05/06/2017

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	790	689	15	15	15	19	30	64	7
Added	0	0	0	0	0	0	0	0	0
Total	790	689	15	15	15	19	30	64	7

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

64 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
ERP	http://ecampus.mec.edu.in/
R and D portal	http://www.mec.edu.in/
Faculty appraisal	http://www.mec.edu.in/
Grivances	http://www.mec.edu.in/
Choice Based Credit System	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
30400000	30531896	82850000	83002972

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)

? 100 Percentage of the computers are networked ? Internet Bandwidth increased from 16 Mbps to 64 Mbps ? Wifi enabled campus ? On line performance Assessment for Quality (OPAQ) ias a web based assessment software developed by our faculty members to conduct objective type online exams for assessment of students' performance so as to improve the quality ? Muthayammal Virtual Learning Center for Technology, Engineering and Management (MVLC TEAM) is a MOODLE based elearning platform which provides materials to students for all subjects MVLC helps in 24x7 learning ? Training on virtual laboratory, spoken tutorials and other IIT Mumbai initiatives ? Expert lectures through Skype ? Member of ICT Academy of Tamilnadu and many programmes on ICT education are being organized through this forum

http://www.mec.edu.in/

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	1625	20600350
Financial Support from Other Sources			
a) National	Tamilnadu Government Scholarship	2920	60765100
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
Soft Skill Development	12/07/2017	2520	College Placement Cell
Remedial Coaching	16/08/2017	573	Subject Faculty Members
Language lab	21/08/2017	480	Language Experts
Bridge courses	12/07/2017	1839	Faculty Members
Personal Counselling and Mentoring	15/07/2017	2520	Faculty Members
View File			

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
2018	Career Guidance Cell	138	632	1	346
View File					

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	Number of	Number of	Nameof	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
No Data Entered/Not Applicable !!!					
View File					

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
2018	1	B.E.	CSE	Gnanamani College of Technology	M.E. (Computer Science Engineering)
2018	1	B.E.	CSE	Knowledge Business School, Salem	M.B.A.
2018	4	B.E.	EEE	Muthayammal Engineering College	M.E (Power System Engineering)
2018	1	B.E.	MECH	Muthayammal Engineering College	M.E. (Thermal Engineering)
2018	3	B.E.	MECH	Muthayammal Engineering College	M.B.A
2018	1	B.E.	MECH	Muthayammal Engineering College	M.E.(CAD/CAM)

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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	8

View File

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

Activity	Level	Number of Participants
TableTennis	Anna University Zone	2
Cricket	Anna University Zone	1
Volley Ball	Anna University Zone	15
Athelatics	Anna University Zone	3
Foot Ball	Anna University Zone	35
Badminton	Anna University Zone	21

Chess	Anna University Zone	1
Kabadi	Anna University Zone	12
Cultural fest	Intra College level	52
Sports fest	Intra College level	47
View File		

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
No Data Entered/Not Applicable !!!						
View File						

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

The students are encouraged to take part in the academic and administrative activities in department and institution level. The students are guided to organize various programs for the benefit of the department faculty and other department students. Various avenues are created to learn and excel in various skill sets. Department association: • The Department Associations regularly organize technical programs in the name of clubs and societies. • The associations regularly conduct various programs by inviting experts from industry as resource persons. Class Committee: • The Class committee meeting is to improve the institution by redressing the academic issues. The committee consists of the student representatives from each class in every department. • They discuss the academic plan, syllabus coverage, difficulties in the subjects, test pattern, result analysis and other departmental activities like symposiums, workshops, paper presentations, Mini projects, etc. Training and Placement Cell: • The student volunteers from each department act as placement representatives and coordinate all the placement programs, guest lectures and the training activities. • Peer group training by the students, enhance the talents of students. National Service Scheme: • The student volunteers of the NSS aim at developing student personality through community services. • The NSS Program Coordinator motivate the volunteers to serve the society through various activities like blood donation, special camps, awareness programs, planting tree saplings, temple cleaning etc… Fine Arts Association: • The student representatives of the Fine Arts Association organize extracurricular and cultural activities. • The Association also organizes "Fine Arts" day every year. • Under this programme various cultural events are being staged by the student volunteers for the students in different cultural events. Women Empowerment Cell: • The student representatives of the Women Empowerment Cell join hands with WEC Faculty members to enhance the understanding of issues related to women and to make the college campus a safe place for women. Canteen: • The college canteen also has the student representatives to give suggestions about the quality and cleanliness of the canteen. Antiragging Committee: • Anti ragging committee student representatives actively participate in maintaining a ragging free environment in the campus. The committee also takes instantaneous action to get rid of ragging. Library Committee: • The library committee has student representatives and they provide suggestions on the functioning of the library, library timings and additional books needed. Hostel and Mess: • The Hostel and Mess committee runs with the support of student members to check and fulfill the needs of the students in

the hostel. Students' Suggestion Committee: • The student representatives of the suggestion committee provide suggestions on various issues of the college including curricular, cocurricular and extracurricular and support services. Professional Societies A professional society is typically dedicated to advancing the profession and the professionals of a given discipline, field, industry or sector. Professional membership refers to organizations you belong to that are affiliated with your profession such as IEEE, IEI, ISTE, and IET, etc.,

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Muthayammal Engineering Institution Alumni Association registered (Registration number 14/2016) with an aim of serving all the stakeholders of MEC by actively involving the Alumni. The Alumni Association of the college strives to create a forum to foster a fruitful communication and a congenial relationship among the Alumni, the students and the College. Muthayammal Engineering college Face book page, department group mail ids, WhatsApp groups etc. are available to connect with the Alumni. Placement and training cell in coordination with the departments organizes Alumni meeting/ interaction every year to review the activities of the current year and plan the activities for the forthcoming year. The primary focus of this association is to: • The Alumni acting as members in the Board of Studies, Academic Council, Recognized Professional Bodies and Quality Circle etc. • Alumni also interact with the final year students and guide them in preparing for campus interviews in core and IT companies. • Identify industries for the students to undergo Inplant Training, Industrial visits, and Internship. • Coordinating for signing MoU with companies where the Alumni are working. • Conducts seminar on latest trends in industry. • Interactive sessions in providing guidance regarding higher studies, competitive exams and placement for juniors. • Provides job opportunity through our Alumni. • Convert innovative ideas to commercially viable products and also to promote business. • Feedback on programme outcomes to enhance teaching/learning process of the parent department. • A separate link for alumni in college website has been developed in the college web site for the alumni

5.4.2 – No. of registered Alumni:

6628

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

• Dhivya Kamachi, Civil Alumni of 2017 batch conducted a lecture on "Vastu Shastra Interview Tips", for civil department students on 15.03.2018 • N.Mohan Chander, CSE Alumni of 2015 batch conducted a interaction on "A View on Technology Update", for CSE department students on 27.08.2017 • I.Syed Muzzamil, CSE Alumni of 2014 batch conducted a interaction on "IT Challenges", for CSE department students on 02.11.2017 • V.Vinay, ECE Alumni of 2011 batch conducted a interaction on "Trends in the industries", for ECE department students on 01.07.2018 • V.Sabarishwaran, EEE Alumni of 2015 batch conducted a interaction on "High Voltage Handling", for EEE department students on 11.09.2017 • T.Karthikeyan, EEE Alumni of 2014 batch conducted a interaction on "About Placement", for EEE department students on 07.10.2017 • J.Jennie Prakash, EEE Alumni of 2016 batch conducted a interaction on "Placements in core sector and IT sector", for EEE department students on 05.03.2018 •

Meenakshi Sundaram, IT Alumni of 2012 batch conducted a interaction on "Data Science Foundation and Big Data Analytics", for IT department students on 05.09.2017 • N.Kamalakannan, MBA Alumni of 2016 batch conducted a interaction on "HR Recruitment Process", for MBA department students on 11.10.2017 • G.P.Usha, MBA Alumni of 2016 batch conducted a interaction on "Employability Skills for MBA", for MBA department students on 18.12.2017 • Ms.M.Radhadevi, MBA Alumni of 2017 batch conducted a interaction on "Motivational Skills to MBA Students", for MBA department students on 19.02.2018 • Kirthika jain, MECH Alumni of 2017 batch conducted a interaction on "Opportunities in Mechanical Engineering", for MECH department students on 27.01.2018

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 management has delegated the daily operations and decision making responsibilities to Deans and Senior Professors. The various teams coordinated together for the brand name of the College in all assigned areas. Regular review meetings are conducted to monitor the performance of the various functions. It promotes genuine involvement in the enunciation of vision, policies and goals of the institution in the decision making process and in the administration of the college. The participation of industry experts at various meeting helps to incorporate the industry perspective in decision making. Management System for academic and administrative activities: HoDs Meeting Department Meeting Class Committee Meeting Board of Studies (BOS) Management System for Quality Assurance: Internal Quality Assurance Cell Management System for general activities Alumni Meeting Parents Meeting Students Meeting

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
Research and Development	Five Departments of our institution viz. EEE, ECE, CSE, Mechanical and MBA have been recognized as Research Centres by Anna University, Chennai. The Institution has well established Research Centres to carry out Innovative Research in advanced fields of Engineering, Technology and Management. Around 450 Research papers have been published by our faculty members so far in refereed International and National Journals. Also our faculty members have presented their research findings in more than 350 national and international conferences. Around 1000 Technical papers have been presented in various Conferences and Symposiums by our students. We have established research laboratories in all PG departments and industry sponsored laboratories such as

		Texas Instruments (Ti) Innovations Lab, In22 Incubation lab, Wipro Mission 10X Lab etc.
	Library, ICT and Physical Infrastructure / Instrumentation	ICT Enabled TeachingLearning Methodologies: To promote ICT Enabled TeachingLearning Methodologies, the following initiatives were taken: • 6 Digital Class Rooms were established • The internet bandwidth has been increased from 16 Mbps to 64 Mbps • The entire campus is made Wifi enabled • All the computer systems are networked Library: The library is connected to the intranet backbone to facilitate distributed online public access of catalogs and eJournals. The library has Membership with British Council Library, ACM, IEEE, DELNET and American Library and Information Centre. The library also has an exclusive digital library and AudioVideo rooms. Research Labs: The departments are equipped with industry supported Research Labs such as Texas Instruments Lab, Wipro Mission 10X Lab, EMC2 Lab, CAD Lab etc. to inculcate research culture. Entrepreneurship Development: Muthayammal Incubation Centre was established which is sponsored by Ministry of Small and Medium Enterprises (MSME), Govt. of India to support young entrepreneurs under the scheme "Support For Entrepreneurial And Managerial Development of SMEs Through Incubators"
	Human Resource Management	The college delegates the plan of the academic activities every year as per hierarchy of organization. The major decisions for the function of the Institution and objective of the Institution will be taken in the Governing Council meetings. In the decentralized governance system, Principal is empowered to take decision for all academic activities inside the Institution. Department heads are authorized to take decision in the department level. The necessary support is provided by the Management of the Trust. The College promotes a culture of participative management. The college has practice of listening to voices from the students and faculty members through proper channel. There will be class committee meeting for all classes headed by the class committee chair person who convenes the meeting

	as scheduled. It is the platform for the students to notify their needs in academic and non academic parts. Minutes of class committee meeting will be sent to the Head of the Institution. Department meeting will be conducted by the HODs in order to address the grievances and in turn will be passed to the top management. Moreover all departments have Complaints and Redressal committee to heed to the issues of the students and to solve. Every fortnight there will be HOD meeting with Principal, minutes will be recorded and sent to the management. The Institute has devised the HR Policies and Procedures towards Recruitment, Orientation, Faculty Training, Promotion etc., and published the same in the name of Employee Hand Book. The Employee Hand Book is given to all the new faculty members when they join the institution. Also during the Inhouse Induction Training Programme, the new faculty members are appraised about the HR Policies. Rules and Regulations of College and Hostel are also defined clearly and are hosted in the website. Every year, Orientation Programme is being organized for the 1st year students and the students are clearly educated about these rules and regulations.
Industry Interaction / Collaboration	Better interaction between Technical institutions and industry is the need of the hour. This will have great bearing on the Engineering Curriculum, exposure of industrial atmosphere to engineering students and subsequent placement of young graduating engineers in industries across the country. We have established understanding with many core and IT industries to provide inhouse technical training, implant training, project guidance, industrial visit, internships, placement etc. in the students' perspective. Training, Research Projects, Consultancy and Testing are few areas pertaining to faculty members. We have collaborations with NASSCOM, ICTACT, Texas Instruments, TCS, Wipro, Oracle, EMC2, Pentagram, CISCO, RedHat Linux, Autodesk, Paypal, Jasmine Infotech, Roots etc. Some of the programems organized are: • NASSCOM: We are one of the 6 Engineering Colleges in India to be the member of NASSCOM and we are

	actively involved in all the endeavors of NASSCOM. • ICTACT: We are active member of ICT Academy of Tamilnadu and provide handson training to our faculty and students. We bagged the ICTACT Academic Partner Excellence Award for three consecutive years (2011,. 2012 2013), • Oracle Workforce Development Program (Oracle WDP): Under this program students will get oracle training certifications which will help students in acquiring better skill sets for their career in the IT sector. ? Wipro Mission 10X Technology Learning Centre: Mission 10X chose to enhance the Graduate Engineering Attributes Viz., Deeper Learning, Communication Skills and Team Work in students to achieve this. Students and Faculty members have been trained inhouse and in the Mysore campus of Wipro. ? EMC2: This initiative is to train the students and pursue research in Big Data and Cloud computing. ? Texas Instruments Innovations Lab: Texas Instruments has sponsored the following laboratories for our students to do research and get trained. ? Analog System Design Lab ? Embedded System Design Lab
Admission of Students	Admission of students as per the norms of AICTE, Anna University and Government of Tamilnadu.
Curriculum Development	a) Syllabus is revised based on the lines of AICTE and Anna University model curriculum. b) The feedback received from various stalk holders are discussed in BOS for framing the syllabus. c) Value added courses have been introduced for the enhancement of student's skill sets through Centre of Excellence. d) Encouragement of multidisciplinary approach in planning and designing.
Teaching and Learning	? Established Muthayammal Virtual Learning Centre for Technology, Engineering and Management (MVLCTEAM) to promote 24 X 7 learning habit among our students. ? This is established in Modular ObjectOriented Dynamic Learning Environment (MOODLE) platform. ? Comprehensive elearning materials have been developed by our faculty members for all the subjects which comprise of Syllabus, Lesson Plan, Course Materials, Power Point Presentations, Question Bank, Model Question Papers,

	Previous year University Question Papers, Free ebooks, Video Lectures, and list of relevant web addresses. These details are posted in MOODLE web portal. ? Digital Class Rooms with Audio / Visual facilities and WiFi Connectivity. ? Active users of the following initiatives of IIT Bombay and MHRD of Government of India o Virtual Classroom o Virtual Labs o Spoken Tutorial o AView o Project ekalavya o FOSSEE (Free and Open Source Software for Education) o Oscar – Animations Repository for Mechanical Engineering ? Active users of NPTEL Video Lectures ? Active users of the following elearning web portals o Khan Academy o Course Era o MIT Open Courseware o edX online courses o TED Ed Lessons o Shodhganga – Repository of Ph.D. Thesis o Hot Potatoes software o Mind Map Software o Google Forms o Youtube Education Channel ? Interaction with national and international experts through Skype and Team Viewer platforms ? More emphasis on Tutorial classes to make our students sound in problem solving skills. ? State of the art computer based language laboratory to improve the communication skills of the students. ? More focus on contents beyond curriculum. ? Course Files and Lab Manuals for Effective Instructions ? Entrepreneurship Awareness and Development Programmes ? Mentoring and Counselling Practices
Examination and Evaluation	• CIA test dates and End Semester Practical and Theory Examination schedule are provided in the academic calendar. • The students are informed of the above through their Class Advisors, Exam Coordinators, Class Committee Meetings and also through circulars. • The complete evaluation procedure and the Rules and Regulations for various programmes are printed in Academic Calendar and distributed to the students. • Any Change/amendments made in the regulations are conveyed to the students through Class Advisors. • The academic and evaluation processes are also explained to the parents during the Parents meeting.

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

E-governace area	Details
Planning and Development	The Planning and Development section

	of our College currently focuses on preparing the Strategic Plan of the College and coordinating the Quality Assurance Initiatives like NAAC Accreditation, NBA Accreditation and Academic Audit. The information regarding meetings, Minutes of the Meeting, Audit guidelines and Documents related to Accreditation are communicated through internet and intranet.
Administration	• Student and Staff Profile • Student Attendance • Disciplinary Management System • Grievance Management System • Staff Portal
Finance and Accounts	Receipt of funds, Projects, Consultancy income, Staff salary and All types of purchases and payment of various bills and taxes.
Student Admission and Support	The modules used for Student Admission and Support are: • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Examination	PreExamination Process: • Student Exam Application Regular, Arrear and Revaluation • Exam Fee Collection, Examination TimeTable Hall Ticket Generation • Examination Attendance Generation Conducting Examination Process: • Checklist Generation • Attendance Verification Despatch Generation • Post Examination • Practical Mark Entry • Dummy Number Generation Bundle Number Generation • Examination Mark Entry Galley Generation • Result Passing • Grade Sheet Generation Consolidated Grade Sheet Generation • Award of Degree Report Generation

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
No Data Entered/Not Applicable !!!
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	Title of the administrative	From date	To Date	Number of participants	Number of participants

	development programme organised for teaching staff	training programme organised for non-teaching staff			(Teaching staff)	(non-teaching staff)

<div align="center">No Data Entered/Not Applicable !!!</div>

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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

<div align="center">No Data Entered/Not Applicable !!!</div>

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
243	**243**	**142**	**142**

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance, Free Bus, Free Accommodation at Hostel, Medical Care	**PF, Group Insurance, Free Bus, Medical Care**	**Scholarships from the Management, Government Scholarships, Group Insurance, Medical Care**

6.4 – Financial Management and Resource Mobilization

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

yes. Internal audits are conducted by the accounts section of the college. All vouchers are audited by an internal auditor. External audits are conducted by a registered chartered accountancy 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

<div align="center">No Data Entered/Not Applicable !!!</div>

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	**Yes**	**University Nominees**	**Yes**	**Dean / HoD**

Administrative	Yes	Auditors	Yes	Principal / Management

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

Parents as one of the stakeholders play a vital role in various committees. Feedback is obtained from parents on TeachingLearning Process, Students Performance, Outcome based Education etc. which provide necessary ideas and suggestions for the improvement of the system. Parents are invited for a departmental level meeting to know more about their expectations and suitable actions are taken based on those inputs

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

Handson training on modern equipments and technologies ? Training on FirstAid and Fire Fighting Equipments ? Training on Basic Computer Office Tools ? Provision for Qualification upgradation ? Inhouse Staff Development Programmes ? Programmes to improve the communication skills

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

Outcome Based Education ? Revised Assessment and Accreditation (AA) Framework for Quality Sustenance and Enhancement in HEIs ? ICT Enabled Teaching Learning Methodologies ? Faculty Induction Training Program

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	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
No Data Entered/Not Applicable !!!					
View File					

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
Cyber Security Awareness Programme for Girls student	08/09/2017	08/09/2017	179	Nill
National Seminar on importance of Women's Role in Technological and Social	04/10/2017	04/10/2017	54	Nill

Activities				
Women's Day Celebration	08/03/2018	08/03/2018	264	Nill

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
Planned to Install Solar Power Plant • Demand / Generation Ratio Estimated

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

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
2017	1	1	03/07/2017	5	Form work for R.C.C Element	Quality Services for the Construction	20
2017	1	1	14/09/2017	1	Awareness Programme on Dengue in Tho.Jedarpalayam Village on behalf of Childrens Day	How to keep our surrounding clean and safety measurement for kids	62
2017	1	1	03/10/2017	1	Awareness Programme on Soil Health	Farmer to improve the Production by	42

					Card Scheme to Farmer by the Government in Arasapalayam Village	providing the nutrients for Soil Health	
2017	1	1	09/10/2017	90	PMKVY Mobile Servicing	Service and Maintenance of Mobile of	25
2017	1	1	01/11/2017	90	PMKVY Automotive Lathe Operator	Technical Training on Lathe Operator	25
2017	1	1	01/11/2017	90	PMKVY Automotive Industrial Engineer	Training on Work Station Design	25
2017	1	1	01/11/2017	90	PMKVY Capital Goods Skill Council	Service and Maintenance of CNC Operator Turning	25
2017	1	1	15/12/2017	90	PMKVY TV Repair Technician	Technical training for Service and Repair with Entrepreneurship	25
2018	1	1	22/02/2018	2	Violence against Womens	To Create awareness on Womens Public Safety and Rights	53

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Hand Book for Students	10/04/2017	• College Rules and Regulation • All Club details • Faculty details • Placement detail •

		Faculty and Students Achievement detail
Anti Ragging Committee	15/05/2017	**AntiRagging committee has been formed as per the guidelines of UGC.The Antiragging squad have surprise visit at vulnerable places and Hostels. The Institution obtains undertaking from both students and parents on Antiragging. The mobile number of squad members are been displayed is major places of Institution.**
Grievance Redressal Cell	08/03/2017	**The College has a Grievance Redressal Cell which address the grievances of the students and Faculty including the grievances on sexual harassment. Suggestion box is available in the Department and common places,the students can express their grievances through the suggestion box.The college is always active to ensure the safety and security for students and Faculty.**
Rules and Polices for Faculty and Supporting staff	02/01/2017	**Management has brought out the handbook for faculty to ensure the transparency and guidance to carry out their responsibilities with ease and efficient manner. The book ensures the rules, policies and procedure of the Institution**

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Eye Checkup for Senior Citizen	27/07/2017	27/07/2017	37
Independence Day Celebration	15/08/2017	15/08/2017	138
Health Awareness Programme for Rural area	18/09/2017	18/09/2017	52
Academic	16/10/2017	17/10/2017	25

Leadership			
Two days National Level Seminar on Ethics and Human Values in Engineering	11/12/2017	12/12/2017	60
Republic Day Celebration	26/01/2018	26/01/2018	185
Skill Development Programme on Manson	08/02/2018	08/02/2018	26
World Water Day	22/03/2018	22/03/2018	40
Promotion YRC Fundamental Principles and Humanitarian Values	23/03/2018	23/03/2018	100

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

* Awareness Programme for avoid Plastics
* Awareness Programme for Clean Campus
* 50 Tree Plantation on behalf of Gandhi Jayanti Celebration
* Awareness Programme on Rain Water Recharge Pit Filling
* Awareness Programme on Save Water
* EcoFest say No to Beverages and Fast Food

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

I Best Practice Title of the Practice Development of Entrepreneurial Attitude among Students Goal The aim of this particular practice is to provide necessary infrastructure, human resources and motivation to nurture the Entrepreneurial Attitude among the students. The Context The structure of the job market has changed in recent years with technology having slipped into almost every nook and cranny in our daily lives. With the Make in India initiative, came the rise of startups, and students started to become more inclined towards starting something of their own and becoming entrepreneurs. The Practice Muthayammal Engineering College has submitted its application to establish a Business Incubator with Ministry of Micro Small and Medium Enterprises (MSME), Government of India under the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubator". It was approved by MSME and the Business Incubator was established at Muthayammal Engineering College. Under this scheme, applications are invited from incubates to submit their ideas and the selected ideas will be funded to the tune of Rs.6.25 Lakhs. Also, many Entrepreneurship Development Programmes are conducted every year by the officials of MSME Development Institute, Chennai, representatives from DIC, Namakkal District and Managers from leading banks. The students are motivated to take part in Project Contests, Startup Challenges and Bootcamps to showcase their skills. Evidence of Success The students have submitted their ideas to the MSME Business Incubator which is awaiting funds from office of DC, MSME, New Delhi. Our students have won FIRST PRIZE and Cash Award of INR 1,00,000 in the Grand Finale of the Government Sponsored National Level Project Contest SMART INDIA HACKATHON 2018 for their project titled "Intelligent Water Level Monitoring in Bore wells and Temperature control of Motor" from Ministry of

Coal. Tamilnadu Innovations Grand Challenge (TNIGC 2017): Our students have won FIRST PRIZE and cash award of INR 1,00,000 in the Tamilnadu Innovations Grand Challenge 2017 (TNIGC 2017) for their ry feed agitation process". This event was organized by EDII (Entrepreneurship Development and Innovation Institute, a Society established by the Govt. of Tamil Nadu) and FORGE Accelerator, Forge Factory, Kumaraguru College of Technology Tech Park, Coimbatore Smart India Hackathon 2017: Our students have won SECOND PRIZE and cash award of INR 75,000 in the Grand Finale of the Government Sponsored National Level Project Contest SMART INDIA HACKATHON 2017 for their project titled "Smart Waste Container" from Ministry of Railways. The students have took part in different project contests and startup challenges such as Texas Instruments Innovations Challenge, Startup Weekend organized by Karpagam College of Engineering, etc and brought laurels to the college. Problem Encountered and Resources Required More awareness progarmmes need to be organized to bring entrepreneurial attitude among students. We find it really difficult to break the conventional attitude of students who want to become job seekers than job providers. Support from Government, angel investors and industries are the need of the hour to develop the entrepreneurial attitude II Best Practice Title of the Practice Strong Orientation towards Research and Development Goal The aim of this particular practice is to provide necessary infrastructure, human resources and motivation to nurture the research competencies among the faculty members and the students. The Context The college offers 06 UG and 07 PG degree programmes in various engineering disciplines. Our institution has 5 Anna University recognized research centers. It is the responsibility of faculty members to inculcate effective learning methodology to their students to understand various engineering concepts. To accomplish this, they need to be creative and innovative in their approach to teaching / learning activities and should possess holistic idea about the subjects what they taught, which requires some level of research competencies in the teaching faculty members. Students from various departments can avail the facilities of the concern department research centers to complete their projects. The Practice The Institution – Industry interaction cell has been established. The institution encourages the faculty members to publish the research papers, attending national/ International conferences and to carry out consultancy work. The faculty members are encouraged to publish research articles in national/ International journals. They were sponsored to attend the national/ International conferences in India/Abroad. Incentives are provided to those faculty members who are doing the consultancy work based on the amount and nature of work. Many MoUs have been signed between the institution and various industries to carry out the research and consultancy activities. Evidence of Success Faculty The Institution has well established Research Centres to carry out Innovative Research in advanced fields of Engineering, Technology and Management. Around 700 Research papers have been published by our faculty members so far in refereed International and National Journals. Also our faculty members have presented their research findings in more than 550 national and international conferences. We have established research laboratories in all the PG departments and industry sponsored laboratories such as Texas Instruments (Ti) Innovations Lab, In22 Incubation lab, Wipro Mission 10X Lab etc. The number of Ph.D. degree holders in the institution has been increased (12 as on date) considerably. In addition, 25 faculty members are pursuing their PhD degree and actively involved in Research. The hindex value of our college is 15 from Google scholar. Students • Students are constantly enthused to involve in various research activities • Every year around 200 projects have been designed by the students apart from the final year projects • They are taking part in various project contests organized by institutions and industries and brought laurels to our institute • The following projects were sponsored by Texas Instruments and the embedded system kits are provided to them. ? Robot to Rescue the Lives Trapped In The Bore Wells ? System to Safeguard/Protect the

Lives near The Unmanned Level Crossing ? Implementation of Acoustic Echo and Noise Canceller for Conference Room • The projects selected in Wipro Mission 10X listed below ? RFID Based Student Attendance Management System using OMAP 3530 ? FPGA based Automated Power Saving System ? Implementation of Solar Tracking System Using OMAP3530 • Mr.S.Ashok Kumar of the Department of Electrical and Electronics Engineering has bagged GOLD medal in the 45th All India Student Design Awards – 2014 organized by National Design and Research Forum Problem Encountered and Resources Required Even though we submit more RD Project proposals to UGC, DST, AICTE etc. we haven't received enough grants. But still faculty members and students are motivated to do projects using the institute's seed money. The accreditation by NAAC, the renewal of NBA accreditation, 12B status and autonomous status will really help us to get more grants in future

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://www.mec.edu.in

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

• Muthayammal Virtual Learning Centre (MVLC), an ELearning platform was developed to promote 24X7 learning • Online by our faculty members to conduct objective type online exams for assessment of Performance Assessment for Quality (OPAQ), a web based assessment software developed students' performance so as to improve the quality • Practicing Outcome Based Education • Ministry of Small and Medium Enterprises (MSME), Government of India sponsored Business Incubator • Muthayammal Exhibition for Science and Technology (MEST) • Faculty and students are motivated to complete NPTEL online courses • The fresh relations with Micro Small and Medium Enterprises (MSME) Development Institute, Chennai, Ministry of MSME, Government of India will really motivate our students to convert their projects into products so as to establish startup companies. This may also lead to filing of Patents. • We have applied for Remote Centre of IIT Bombay. If approved, it will be of great help to both the student and faculty community to listen to the lectures of eminent IIT professors in various engineering streams. • The relations with industries will be strengthened further to establish Research Laboratories in all the Departments.

Provide the weblink of the institution
http://www.mec.edu.in

8.Future Plans of Actions for Next Academic Year

•To start UG programmes in Biomedical Engineering, Medical Electronics, Bio Technology and Chemical Engineering with an intake of 60. •To initiate Faculty Recharge Programme for Empowerment for the Faculty and by the Faculty as TASTE(Teacher's Associated Seminar Towards Excellence) •For Student Centric and to Enrich the knowledge in all subjects by providing Employability skill based on concept learning as MKC(Must Know Concepts Learning and Practicing) •To submit the projects of incubatees of Muthayammal Incubation Centre to MSME, Govt. of India for getting funds under the scheme "Support For Entrepreneurial And Managerial Development Of SMEs Through Incubators" •To apply for Atal Incubation Centre to establish new incubation centre at our institute that would nurture innovative startup businesses in their pursuit to become scalable and sustainable enterprises •To bring innovations into the Choice Based Credit System (CBCS) •To organize an International Conference on Engineering, Technology and Management •To conduct more programmes to promote Entrepreneurial Attitude among students

•To organize Muthayammal Exhibition for Science and Technology (MEST) •To promote Research and Development and to file patents •To motivate the students towards entrepreneurial development