



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		M.A.M. SCHOOL OF ENGINEERING
Name of the head of the Institution		Dr.P.Ranjith Kumar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04312910219
Mobile no.		7708000971
Registered Email		principal@mamse.in
Alternate Email		ranjjith@gmail.com
Address		Trichy-Chennai Trunk Road, Siruganur
City/Town		Tiruchirappalli
State/UT		Tamil Nadu
Pincode		621105
<b>2. Institutional Status</b>		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.P.Lilly Florence
Phone no/Alternate Phone no.	04312910219
Mobile no.	9751028553
Registered Email	iqac@mamse.in
Alternate Email	iqacmamse@gmail.com

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://mamse.in/IQAC-AQAR-2018-30-05-2018.pdf">http://mamse.in/IQAC-AQAR-2018-30-05-2018.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://mamse.in/Academic%20Calender%202018-19.pdf">http://mamse.in/Academic%20Calender%202018-19.pdf</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B	2.22	2017	17-Feb-2017	16-Feb-2022

### 6. Date of Establishment of IQAC

12-Dec-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
Academic Administrative Audit (AAA)	06-Nov-2018 1	96
Regular meeting of	24-Apr-2019	18

Internal Quality Assurance Cell (IQAC)	1	
Regular meeting of Internal Quality Assurance Cell (IQAC)Regular meeting of Internal Quality Assurance Cell (IQAC)	01-Nov-2018 1	18
Regular meeting of Internal Quality Assurance Cell (IQAC)	20-Jun-2018 1	16
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**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechatronics Engineering	Students Project 2018-19	TNSCST	2018 1	15000
MAM School of Engineering	PMKVY	NSDC	2019 1	888625
Electrical and Electronics Engineering	Seminar	TNSCST	2019 1	20000
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	3
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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

1.Effective content delivery using ICT Tools. 2.Regular Internal Auditing. 3.Transparent Online Student feedback system. 4.Facilitation and support to the

students for their cocurricular activities. 5. Nurturing the entrepreneurial skills of the 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
Promotion of lifelong learning attitude among faculty members	More faculty members actively learned through NPTEL and other MOOCs.
Developing the general awareness and communication skill of the students	Communication skills of rural based students improved much by adopting this practice.
Promotion of social extension activities among students	Various social extension activities such as Blood donation camp, Cancer awareness program, EyeScreening camp, Tree plantation camp have been conducted.
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**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Governing Council	22-May-2019

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

Yes

Date of Visit

22-Feb-2017

**16. Whether institutional data submitted to AISHE:**

Yes

Year of Submission

2019

Date of Submission

18-Jan-2019

**17. Does the Institution have Management Information System ?**

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

Prezenta edu pro covers entire need to educational institutions under cloud security. ERP provides user bases access control, user role starts from super admin, admin, staff, and

students. Prezenta Edu Pro consists of various modules like students, staffs, attendance, Marks, students feedback, exam cell, accounts, hostel , transport, bulk sms, etc., This management information system is used for various purposes. Master module is used for branch details, batch regulation, section details, subject details, subject allocation, transport details, hostel details, etc. Module for Students is used for Enquiry/ Follow up, Reports Generation like TC, CC, Bonafide, etc., Individual Student Login for feedback, Notes download and transport and hostel entry. Staff module is utilized for Staff logbook, Notes sharing for students, Staff attendance, payroll and reports. Attendance Module is used for the absentees' intimation via SMS or voice call, daily absent count intimation, attendance percentage calculation intimation, attendance report generation, late entry intimation and reports. Mark module is employed for Student performance analysis, Parent report card generation, mark intimation through SMS, Class and Subject wise Analysis. Student's feedback module is used to take online feedback from students about lecture, laboratory, faculty performance, etc.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

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

i) Course plan: In the beginning of each semester a course plan consisting of skill matrix of the members of faculty, subjects allotted to the individual teachers according to their specialization, schedule for internal assessment tests and assignments, timetable and plan of activities proposed to be conducted by the department for that semester is prepared and displayed on the notice board for reference to the students. ii) Lesson plan :The concerned faculty for each subject prepare a detailed lesson plan giving the units of the syllabus, proposed date of completion of the unit, actual date of completion, deviation if any and the reason for the same. It also provides the information about the text books to be followed and the books for reference. Each individual teacher also maintains a log book in which the topics discussed in the class each day are recorded which will give an idea about the pace with which each unit of the syllabus is covered and whether it is according to the lesson plan already prepared. iii) Effective delivery of curriculum is achieved by adopting various methods such as using black board, Power point presentation, digital library, NPTEL facilities and the websites of certain

renowned foreign universities which have been proved to be effective in teaching learning process. After the second week of each semester, feedback is obtained from the students thrice in a semester about the academic activities and performance. Based on the feedback obtained, counselling will be provided to the needed faculty members/students by the concerned higher authority for further improvement.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
CREO Software	NIL	28/01/2019	6	YES	YES
Auto CAD Software	NIL	29/01/2019	6	YES	YES
Computer Graphics	NIL	27/07/2018	1	YES	YES
Networking Basics	NIL	25/08/2018	1	YES	YES
Compiler Design Syntax Directed Translation	NIL	07/03/2019	1	YES	YES
Computer Architecture Processor and Control Unit	NIL	11/04/2019	1	YES	YES
Synchronization and Replication	NIL	06/05/2019	1	YES	YES
Embedded System Using Python	NIL	23/11/2018	2	YES	YES
Embedded Systems - Arduino Uno	NIL	23/10/2018	2	YES	YES
Auto CAD Inventor	NIL	11/07/2018	11	YES	YES
ProE Creo	NIL	01/01/2019	12	YES	YES

#### 1.2 – Academic Flexibility

##### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
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##### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting	Programme Specialization	Date of implementation of
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CBCS		CBCS/Elective Course System
BE	Aeronautical Engineering	01/06/2018
BE	COMPUTER SCIENCE ENGINEERING	01/06/2018
BE	ELECTRICAL & ELECTRONICS ENGINEERING	01/06/2018
BE	ELECTRONICS & COMMUNICATION ENGINEERING	01/06/2018
BE	MECHANICAL ENGINEERING	01/06/2018
BE	MECHATRONICS ENGINEERING	01/06/2018

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

	Certificate	Diploma Course
Number of Students	530	0

### 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Synchronization and Replication for CSE	06/05/2019	64
Embedded System Using Python for EEE, ECE	23/11/2018	26
Embedded Systems - Arduinio Uno for EEE, Mechat, ECE System Using Python	23/10/2018	47
Auto CAD Inventor for Mechanical Engineering	11/07/2018	50
ProE Creo for Mechanical Engineering	01/01/2019	52
CREO Software for Aeronautical Engineering	28/01/2019	28
Auto CAD Software for Aeronautical Engineering	29/10/2018	28
Computer Graphics	27/07/2018	43
Networking Basics	25/08/2018	64
Compiler Design Syntax Directed Translation for CSE and Replication	07/03/2019	64
Computer Architecture Processor and Control Unit for CSE	11/04/2019	64
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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	Electronics and	22

	Communication Engineering	
BE	Electrical and Electronics Engineering	22
BE	Mechanical Engineering	22
BE	Computer Science and Engineering	14
BE	Mechatronics Engineering	14
BE	Aeronautical Engineering	21
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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
<p>The feedback from the students are obtained through online by various modes. For instance through Prezenta, Google forms... Class Committee meetings are conducted at regular intervals. In general, The feedback from Students is obtained in online using softwares such as Prezenta, Google Forms etc., and also by conducting class committee meetings/ Periodical Meetings. Points of prominence during the feedback are listed below. The Students feedback is obtained based on the parameters: A) Academic Excellence: Special Coaching, Making students to participate in seminars, conferences, Internships, Industrial Visits, Monitoring Syllabus Coverage, Class Notes, Lecture Delivery, Assignments, Use of ICT Tools. B) Classroom Effectiveness: Students counselling based on feedback, test pattern, question pattern, Answer key, Voice, Board Presentation, Clarity of Lecture Delivery C) Students welfare: Providing good RO water Facility, Financial Scholarships, Motivation, Annual awards, Through Counselling, Grievance Redressal Cell, Anti Ragging Committee, Women Empowerment Cell, etc D) Administration: Time Management, Appointed Academic Co coordinators, Maintenance of Students History, Logbook Maintenance. E) Facilities: Transport Facility, Separate Hostel Facility for Boys Girls, VIP Lounge. RO Water, Ramp, F) Environment: By incorporating EXNORA, YRC RRC The feedback from Teachers is obtained through online based on the below mentioned parameters: A) About Time table Management: Tutorial Hrs, News Paper Hrs. B) Maintaining Library Books, Reputed Journals Magazines C) OD for paper presentation/Conference/Journal publication and for pursuing Ph.D D) About Grievance redressal, FDP, Examination point, resources for conducting practicals, Institution's involvement towards Faculty welfare, social responsibility activities, etc. • From the feedback obtained from the stake holders namely students, teachers, employers, alumni parents, the relevant and the meaningful suggestions are called out which would then be used for the overall development of the Institution. • After the second week of each semester, feedback is obtained from the students thrice in a semester about the academic activities and performance. Based on the feedback obtained, counselling will be provided to the needed faculty members/students by the</p>



concerned higher authority for further improvement. • From the feedback obtained from the employers, value added courses oriented to Industries have been implemented. • Steps have been taken to improve the Sports Cultural facilities and increased the facilities based on Alumni's feedback. • As the feedback received from alumni and parents, continuous efforts have been taken for the placement in core companies and succeeded

## 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	Aeronautical Engineering	60	35	28
BE	Computer Science Engineering	60	32	27
BE	Electrical and Electronics Engineering	60	24	20
BE	Electronics and Communication Engineering	60	17	14
BE	Mechanical Engineering	120	52	43
BE	Mechatronics Engineering	60	31	26
ME	Power Electronics and Drives	18	2	1

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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
2018	718	3	93	3	96

### 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	Number of smart classrooms	E-resources and techniques used
96	96	3	6	3	3

[View File of ICT Tools and resources](#)

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

• Each faculty member is a mentor for a group of 5 to 10 students. He /She will monitor the students' attendance, academic performance, Cocurricular activities and provide counselling and support to improve the performance on the above key factors. It is found that such counselling is mostly required to the students of first and second year of the course. This ensures a cordial relationship between students and faculty members which pave path for academic excellence. • Apart from this mentoring system, the following mechanisms are also functioning in our institution. ? The institution has a student grievances redressal cell which meet once in a semester and the responsibility of this cell is to rectify any grievance relating to the difficulties faced by the students with respect to academic activities or the facilities provided. ? The Women Empowerment Cell (WEC) of our college was established with the motto of "Prevention of Sexual Harassment (POSH)". The cell functions actively with the objectives to disseminate knowledge about the empowerment of women, create awareness on the rights of women, establish gender sensitization, facilitate economic empowerment of rural women, promote individual growth like health, hygiene and nutrition, organize various training and development programs for women, provide counselling for psychological empowerment of students and prevent sex discrimination and harassment. This cell takes care of any complaint relating to the sexual harassment for the girl students. Since continuous counselling is given to the students in the class, no incident of sexual harassment is reported so far. ? We provide guidance to the students who could not able to perform well in academic activities and those with personal or psychological problems through counselling. ? The institution has an anti ragging committee constituted as per the AICTE/AU guidelines. The students are made aware of the consequences of ragging and the punishments given. In the beginning of every academic year, instructions are given to all the students through circulars highlighting the ragging punishments and advise the students not to involve in any ragging activities. ? The institution has an exclusive Career Development Centre (CDC) which is effectively functioning under a placement coordinator. Many training programs are organized to develop the communication skills, mathematical and English aptitude, group discussion and technical skills by the professors and professional trainers. ? The institution has set up an Entrepreneurship Development Cell [EDC]. This cell organizes a number of entrepreneurship awareness programs for the students and those who come forward with a proposal are given proper guidance.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
718	96	10:1

**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
90	96	0	21	12

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.P.Ranjith Kumar	Principal	Sirantha Eayarkaiyin Kavalar
2018	Dr.M.Panneer Selvam	Associate Professor	Sirantha Eayarkaiyin Kavalar
2018	P.Kavitha	Assistant Professor	Institution Topper in NPTEL course (Elite Certification)
2018	T.Ashok	Associate Professor	NPTEL Certification

2018	M.Chandrasekar	Assistant Professor	NPTEL Certification
2018	P.Sudha	Assistant Professor	NPTEL Certification
2018	R.Ramanathan	Assistant Professor	NPTEL Certification
2018	B.Chandramohan	Professor	Chairman for Mechanical Board, Central Valuation Anna University
2018	Dr. P. Lilly Florence	Professor	ViceChairman for Chemistry Board, Central Valuation Anna University
2018	S.Ravichandran	Associate Professor	ViceChairman for Mechanical Board, Central Valuation Anna University
2018	S.Kabilan	Associate Professor	Vice Chairman for Mathematics Board, Central Valuation Anna University

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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	101	Semester I, III, V, VII	11/01/2019	18/01/2019
BE	101	Semester II, IV, VI, VIII	17/05/2019	27/06/2019
BE	104	Semester I, III, V, VII	11/01/2019	18/01/2019
BE	104	Semester II, IV, VI, VIII	17/05/2019	27/06/2019
BE	105	Semester I, III, V, VII	11/01/2019	18/01/2019
BE	105	Semester II, IV, VI, VIII	17/05/2019	27/06/2019
BE	106	Semester I, III, V, VII	11/01/2019	18/01/2019
BE	106	Semester II, IV, VI, VIII	17/05/2019	27/06/2019
BE	114	Semester I, III, V, VII	11/01/2019	18/01/2019
BE	114	Semester II, IV, VI, VIII	17/05/2019	27/06/2019
BE	115	Semester	11/01/2019	18/01/2019

		I,III,V,VII		
BE	115	Semester II,IV,VI,VIII	17/05/2019	27/06/2019
ME	415	Semester I,III	11/01/2019	18/01/2019
ME	415	Semester II,IV,VI,VIII	17/05/2019	27/06/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The Evaluation process and the reforms stipulated by the Anna University is strictly followed by our institution. Reforms in the examination procedures and processes at the college level have positively impacted the examination management system. ? Technology is effectively used in the examination management process. ? The Prezenta software is used to take online feedback from students. ? Academic coordinators review the daily attendance, CIA -I,II,III,IV, V,VI, VII, VIII Questions Answer Key, CIA Result analysis etc. ? Sample copies of test note books are verified and submission of assignments by the students are reviewed periodically by Academic coordinators. ? Class Committee Meetings are conducted thrice per semester. Students will give their feedback about the curriculum, facilities, program conducted, teaching methodologies, administration and environment at the time of class committee meeting and this will be analyzed and suitable action will be implemented. ? For every six months, faculty performance is reviewed by the self appraisal form and personal review by the Principal Academic coordinators. ? Generally, IQAC Audit is carried out once in every semester.

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

The college academic handbook, issued to each student and staff contains a section dedicated to examination process and schedule .This handbook contains information such as vision, mission, quality policy statements, management committee, board of governors, various cells and committees to monitor the progress of the institution, various courses, faculty details, rules and regulations, library information, antiragging details, Anna University academic evaluation process and the college academic schedule. ? Academic calendar is prepared well in advance before the commencement of the semester, which comprises of internal examination dates and associated cocurricular activities. This document is vital, as based on this document, the faculty members plan their course delivery and assessment. ? An updated examination manual is available at the office of the controller of examination cell for general reference. ? The periodical internal marks will be uploaded in Anna University online portal, which can be viewed by student through his /her login id and password. This system provides transparency in evaluation process. ? Updates about examination process are shared during staff meetings. ? College website, LCD display at the entrance and circulars disseminate information and guidelines regarding examination schedule and the student results. ? Exclusive notice board in the portico gives the examination related announcements.

**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://www.mamse.in/2.6.1-Program%20Outcomes.pdf>

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage
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Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
101	BE	Aeronautical Engineering	11	6	54.54
104	BE	Computer Science Engineering	5	5	100
106	BE	Electronics and Communication Engineering	11	5	54.54
105	BE	Electrical and Electronics Engineering	18	6	33.33
114	BE	Mechanical Engineering	61	22	36.06
115	BE	Mechatronics	18	10	55
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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://www.mamse.in/SSS.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2018	AICTE	13.6	6.65
Any Other (Specify)	2018	DSTNIMAT	0.4	0.32
Any Other (Specify)	2018	TNSCST	0.2	0
Any Other (Specify)	2018	PMKVYTI	6.9	6.9
Students Research Projects (Other than compulsory by the University)	2018	TNSCST	0.15	0.15
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### 3.2 – Innovation Ecosystem

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

practices during the year

Title of workshop/seminar	Name of the Dept.	Date
A Talk on " Higher Studies for Engineers"	Mechanical	13/07/2018
Guest lecturer on "Product Design and development"	Mechanical	19/07/2018
Guest lecturer on "Non Destructive Testing"	Mechanical	20/07/2018
Two days Workshop on "Rapid prototyping with Hands on Training"	Mechanical	02/08/2018
Design Implementation in Industries Using CAD Software.	Mechanical	01/09/2018
Introduction to NDT	Mechanical	28/12/2018
Awarness about GATE Exam	Mechanical	04/01/2019
Six SIGMA Principle	Mechanical	05/01/2019
Guest lecture of Autocadd and Ecadd	Mechatronics	11/07/2018
Guest lecture on industrial automation an robotics	Mechatronics	17/07/2018
Guest lecture on new skill for engineering students	Mechatronics	24/07/2018
Guest lecture on industry 4.0 using IOT	Mechatronics	31/07/2018
Guest Lecture on "Low Power Applications using Tanner"	ECE	02/01/2019
Seminar on "Industrial Automation using PLC and SCADA"	ECE	21/02/2019
AutoCAD ECADD	EEE	10/07/2018
PLC Automation	EEE	17/07/2018
Advanced Technologies in Embedded Systems	EEE	17/07/2018
Embedded Systems and PLC Design	EEE	04/09/2018
Industrial Automation	EEE	26/12/2018
Introduction To Robotics	EEE	02/02/2019
Career Development For Engineers	EEE	22/01/2019
Workshop on Embedded System and Robotics	Mechatronics	13/08/2018
Guest lecture on Embedded	Mechatronics	11/09/2018

system		
Guest lecture on Robotics and its industrial impact	Mechatronics	26/12/2018
Seminar on career development for engineers	Mechatronics	22/01/2019
Seminar on Internet of Things	Mechatronics	02/02/2019
Guest lecture on KOM	Mechatronics	23/03/2019
Power Electronics and Applications	EEE	29/01/2019
Internet of Things	EEE	02/02/2019
Guest lecture on "advanced technologies in embedded systems"	ECE	12/11/2018
Guest Lecture on "An overview of artificial intelligence, machine learning and deep learning "	ECE	26/12/2018
Cloud Computing and 3d Animation	CSE	16/08/2018
Embedded Systems	CSE	19/07/2018
Importance of web designing and digital Marketing	CSE	12/07/2018
Recent Trends in Cloud Computing	CSE	05/07/2018
Guest lecture on "oops and data structures"	ECE	18/07/2018
Workshop on "robotics"	ECE	30/07/2018
Seminar on "recent trends on industry automation"	ECE	30/08/2018
Guest lecture on "embedded systems and plc design"	ECE	05/11/2018
NDT methods its Techniques	AERO	22/12/2018
GATE Examination Awareness Programme	AERO	14/01/2019
Modern Technology used in Paper Industry	AERO	21/01/2019
Recent Trends in IC engines Automation	AERO	31/12/2018
Two days workshop on "Rapid prototyping with hands on training"	Mechanical	02/08/2018
Guest Lecture on CAD/CAM/CAE	Mechanical	11/07/2018

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Paper presentation	M.Vishalini M.Nithya	Periyar Maniammai Institute of Science and Technology, Thanjavur	23/03/2019	Association of Aeropteryx, ISOPTERONZ2K18 I Prize
Best Student 2017	B.Chandramohan	Dr.Kalam Educational Trust for Tribal	15/03/2018	Outstanding performance in Academics
Best Academic Institution	M.A.M. School of Engineering	Dr.Kalam Educational Trust for Tribal	15/03/2018	Best Academic Institution
Best Engineering College with Innovative Education in TamilNadu	M.A.M. School of Engineering	Asia Today	10/04/2019	Best Engineering College with Innovative Education in TamilNadu
Accreditation for being National Cyber Defence Resource Centre	M.A.M. School of Engineering	National Cyber Defence Resource CentreCyber Defence	30/04/2019	Accreditation for being National Cyber Defence Resource Centre
Project Expo	Mohamed Ithyas I, Ahmed Rifath.S Mohamed Fahees ME	Care Group of Institution	14/02/2019	National Level Technical SymposiumFirst Prize (PROYECTO)
Paper Presentation	Mohamed Ithyas I, S.Abdullatiff	Indra Ganesan College of Engineering	01/03/2019	National Level Technical Symposium
Paper Presentation	R.Raju, Z.Mohammed Imran, P.Mukesh Kanna	M.A.R group of institution. Trichy	08/03/2019	National Level Technical Symposium
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### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
<b>No Data Entered/Not Applicable !!!</b>					
No file uploaded.					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
<b>No Data Entered/Not Applicable !!!</b>		



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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechatronics	1	4.2
International	Mechanical	1	1.09
<a href="#">View File</a>			

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

Department	Number of Publication
ECE	7
Aeronautical	11
Mechanical	21
EEE	4
Mechatronics	2
CSE	7
<a href="#">View File</a>	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Microstructural characterization and mechanical properties of Al7075/BN metal matrix composites prepared by conventional casting method	K Chandrasekar	Mater. Res. Express	2019	3	M.A.M School of Engineering	1
Design and implementation of arithmetic and logical block	T. Ashok, M Chandrasekar	International Journal of Intellectual Advancements and Research	2019	1	M.A.M School of Engineering	1

using QCA technology		in Engineering Computations				
Smart Energy Monitoring System Using IOT	K.UMARANI	International Journal of Computational Research and Development (IJCRD)	2019	1	M.A.M School of Engineering	1
Eradication of hydraulic anomalies using smart sewer inspection robot	P.KAVITHA	International Journal of Advance Research, Ideas and Innovations in Technology	2019	3	M.A.M School of Engineering	1

[View File](#)

### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
<b>No Data Entered/Not Applicable !!!</b>						
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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	15	23	0	4

[View File](#)

## 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Fire safety awareness First Aid Training Programme	St. John's Ambulance, Trichy.	4	170
Cancer Awareness and Education Programme	Government Primary Health Centre, Andhanallur	7	250
Blood Donation Camp	Uyir Thuli blood bank, Trichy	4	50
Eye Screening Camp	Mahatma Gandhi Eye	4	547

Hospital, Thennur,  
Trichy

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Iyarkaiyin Uravugal Virudhu 20182019	Sirantha Iyarkaiyin Kavalar	Moral Resource and Research Foundation	2

[View File](#)

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Helmet Ralley	Manachanallur Traffic Police, Manachanallur	Helmet Ralley	3	100
Gaja Flood Relief	Arshya Educational Charitable Trust MAM School of Engineering	Gaja Flood Relief	10	50
Aids Awareness	Tamil Nadu State AIDS Control Society	Aids Awareness	20	250
Awareness to women	Deputy Commissioner of Police, Law and Order, Trichy City.	Campaign on World Day of Fight against Sexual Exploitation	30	200
Gender Issue	Bishop Heber College, Trichy	Gender Discrimination Safety	8	200

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### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
<b>No Data Entered/Not Applicable !!!</b>			

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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab	Duration From	Duration To	Participant
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		with contact details			
Faculty Internship	Internship	G.B.Engineering Enterprises Pvt Ltd,	03/06/2019	05/06/2019	2
Internship	Internship	Jet Aerospace Aviation Research Centre,Palakkad ,Kerala	26/05/2019	27/05/2019	2
Faculty Internship	Internship	Worksmen Consulting	20/05/2019	29/05/2019	1
Faculty Internship	Internship	Pantech	27/05/2019	29/05/2019	3
Faculty Internship	Internship	Pantech	18/09/2018	21/09/2018	4
Internship	Internship	PWD Water resource Organisation	27/09/2018	29/09/2018	1
Industrial Visit	Manufacturing of general purpose machinery	Hi Tech Arai Pvt Ltd	26/02/2019	26/02/2019	19
Industrial Visit	Engineering work modules and equipments	Kathirmalai Engineering works	20/02/2019	20/02/2019	44
Industrial Visit	Quality product and manufacturing	R.K metal Industries	20/01/2019	20/01/2019	44
Industrial Visit	Real time challenges and researches in industries	Kothari Sugar Mill, Kattur	19/09/2018	19/09/2018	21
Industrial Visit	Real time problems in industries	Dhanalakshmi Srinivasan Sugars Pvt Ltd, Perambalur	21/08/2018	21/08/2018	23
Industrial Visit	Manufacturing of High pressure Boiling parts	Perfect International Fabrication Limited,M.R. Palayam	18/09/2018	18/09/2019	21
Internship	Internship	Pantech solutions	16/08/2018	18/08/2019	1
Internship	Internship	Pantech	06/09/2018	08/09/2018	1

		solutions			
Internship	Internship	Pantech solutions	26/07/2018	28/07/2018	1
Internship	Internship	Pantech solutions	14/05/2019	16/05/2019	1
Industry	Industrial	Kothari Sugars and Chemical Ltd.	18/07/2018	18/07/2018	17
Industry	Industrial	NLC, Neyveli	18/03/2019	18/03/2019	50
Industry	Industrial Visit	Jothi Malleables pvt LtdTrichy,	16/08/2018	16/08/2018	55
Industry	Industrial Visit	Hindustan Aeronautical Limited, Bangalore	23/02/2019	24/02/2019	42
Internship	Internship	High Energies Batteries Ltd	21/09/2018	23/09/2018	2
Internship	Internship	Perfect International Fabricators(p) Ltd	21/11/2018	23/11/2018	4
Internship	Internship	Sri Abirami Engg works	25/08/2018	28/08/2018	3
Internship	Internship	Kothari Sugars and Chemical Ltd	27/09/2018	29/09/2018	5
Internship	National	Pantech Solutions	14/05/2019	16/05/2019	1
Accreditation	National Cyber Security Programmed	National Cyber Defence Resource Centre	30/04/2019	30/12/2019	60
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ALPHACAD	27/03/2019	To synergize the resources Activities: Value added course on 1.AUTOCAD 2.CREO	117
LETZCONNECT	03/08/2018	LETZCONNECT	450

Technologies Pvt. Ltd.,		providing institutional intranet, educational content, social networking, learning management, ecommerce and other academic tools both of universities and its faculty students.	
R.K.Engineering Enterprises	17/08/2018	Encouraging and allowing the students to undergo inplant training, Delivering state of - the - art guest lectures and participation in seminar, workshop and conference from one side to the other.	150
SPRY Engineering (P) Ltd.	28/09/2018	Sharing of technical knowledge, Encouraging and allowing students to undergo inplant training, Guest Lectures Seminars, etc.	150
R.K Metal Industries	10/10/2018	Encouraging and allowing students to undergo inplant training, Delivering state of - the - art guest lectures and participation in seminar, workshop and conference from one side to other. Consultancy services on product development, etc.	150
Perfect International Fabricators (P) Ltd.	08/01/2019	Recruiting the engineering graduates of MAMSE on priority basis.	150
Indo Shell Mould Ltd., (ISML), Coimbatore.	08/03/2019	Both parties shall cooperated during the continuous of this MOU in	150

accordance with the terms set out herein so as. To conduct on the Job training programmes for Mechanical, Mechatronics and Electrical Electronics Engineering students. To conduct c

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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
90	93.05

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Safetech	Fully	4.0	2016

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	16628	3964458	352	83538	16980	4047996
Reference Books	446	200000	0	0	446	200000
e-Books	600	10000	0	0	600	10000
Journals	500	668271	50	72785	550	741056

e-Journals	1	188050	0	13570	1	201620
Library Automation	1	15000	0	0	1	15000
Others (specify)	2704	135200	1015	452638	3719	587838
CD & Video	863	34520	98	3920	961	38440
<a href="#">View File</a>						

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
<b>No Data Entered/Not Applicable !!!</b>			
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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	292	6	48	1	266	8	18	48	0
Added	30	1	0	1	30	0	0	0	0
<b>Total</b>	<b>322</b>	<b>7</b>	<b>48</b>	<b>2</b>	<b>296</b>	<b>8</b>	<b>18</b>	<b>48</b>	<b>0</b>

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

48 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
NPTEL Nodal Centre Digital Library	<a href="https://onlinecourses.nptel.ac.in/">https://onlinecourses.nptel.ac.in/</a> <a href="http://www.delnet.in">http://www.delnet.in</a>

#### 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 incurred on maintenance of physical facilities
35	32.48	150	154.19

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

Lab equipments are tested for accuracy and calibrated accordingly. Civil related works, Waste water management and Rain water harvesting are maintained by an estate officer. Twenty four hours uninterrupted power supply is maintained by using generator backup is maintained by a team of electricians.
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There is a transport incharge who looks after the maintenance of vehicles by sending them for service periodically and attending to the repairs as and when required. Library has a Library Advisory Committee which consists of heads of the department and senior faculty members. The committee meets once in a year, and discusses budgetary provision for the purchase of new books as per the list suggested by the faculty members handling different subjects and also student feedback. The committee finalizes the subscription of new journals and magazines, proper Display of clippings, procedure for the issue and return of books etc., The institution adheres to the policy of motivating the deserving students to participate in the co curricular and extracurricular activities, such as quiz competition, seminars and conferences and cultural activities at the state and national level and the students are supported in all aspects. The students have also brought laurels to the institution by winning such competitions. By the constant encouragement and support given by the Management, they participate in competitions relating to the sports and games at university, district and state levels for which the expenditure towards their travel, food and other allowances are met with. Those who participate in such competitions are also given intensive precoaching by the Director of Physical Education of the college. In case the students participating in such competitions lose the number of days of attendance, such students are given extra coaching after regular working hours of the college. If required, those students are given an option of writing the internal exams on a different date.

<http://mamse.in/Maintenance%20of%20support%20Facilities.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit scholarships (Tuition Fee) Sports scholarships (Tuition Fee) Scholarships at the discretion of the Management for deserving candidates	350	6000000
Financial Support from Other Sources			
a) National	Minority, SC (Fresh), SC (Renewal), BC (Fresh), BC (Renewal)	529	16518175
b) International	Nil	0	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 implementation	Number of students enrolled	Agencies involved
Personal Counselling and Mentoring	30/08/2018	450	Internal Faculty Members

Remedial Coaching	29/10/2018	300	Internal Faculty Members
Career development for Engineers	22/01/2019	28	Internal Faculty Members
Training program	17/09/2018	20	Gobal Talent Track(GTT)
Advanced Technical Program(ATP)	04/07/2018	11	TVS Training Services
Life Skills and Aptitude Training	17/09/2018	28	Mahindra Pride School
<a href="#">View File</a>			

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 passed in the comp. exam	Number of students placed
2018	Interview and soft skills training program	153	153	0	136
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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
3	3	7

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
9	161	136	00		
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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	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	B.E Mechanical	B.E Mechanical	Canada	M.S
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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
<b>No Data Entered/Not Applicable !!!</b>	
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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
Tennis	Institutional	16
Throw Ball	Institutional	48
Silambam	Institutional	3
Badmitton	Institutional	16
Foot Ball	Institutional	55
Volley Ball	Institutional	48
Cricket	Institutional	60
Kabadi	Institutional	60
4x100 meters Relay	Institutional	30
1500 meters Running	Institutional	10
400 meters Running	Institutional	20
200 meters Running	Institutional	20
100 meters Running	Institutional	25
National Youth Day	Institutional	650
Bharathi Ula (20.12.2018)	Institutional	150
Kaviarangam (6.10.2018)	Institutional	150
Muthamil Kalai Mandram 2nd Year Inauguration (28.7.2018)	Institutional	150
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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
2018	Third Prize	National	1	0	8121151140 61	Sriram .M
2019	First Prize	National	0	1	8121171150 15	Mohamed Ithyas
<a href="#">View File</a>						

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

Each department has a students Association for which office bearers are selected among the student representatives of the classes. There are President, Vice president, Secretary and Joint Secretary as office bearers from final

year, third year, second year and first year respectively. It is the responsibility of these office bearers to arrange various programmes in academic or cultural arena so that their organizational skills and leadership qualities are developed. Even if the events are sponsored by the funding agencies, the management supports the events with partial funding. The following are the academic and administrative bodies that have student representatives on them

- i. AntiRagging Committee Ragging is a damaging form of interaction of the seniors in college or school with the juniors, newcomers or first years. Students being ragged send emails at [helpline@antiragging.in](mailto:helpline@antiragging.in) to register their complaint, which can be registered without disclosing the name(s) of the victim.
- ii. Library Committee For the efficient usage of the facilities in the Library, a Library committee has been constituted consisting of the Heads of the Departments, Senior members of the faculty from all the departments. The purchase of books before the start of the semester, regular updating of journals and magazines are being monitored. Usage of library is continuously encouraged among the faculty and students. The Following documents are maintained with respect to the smooth functioning of the library. Library Tickets, Stock statement at the beginning of every academic year, List of students and staff who are using the library.
- iii. Women Empowerment Cell This cell mainly focuses on empowering the women employees, female students in different verticals. This cell functions to improve the livelihood, behaviour and career growth for all. In this context, several programmes are conducted at regular intervals and experts from the industries and women achievers are invited as resource persons.
- iv. Women's grievance redressal cell: The cell is keen in maintaining the campus free from gender based violence. The sexual harassment, verbal and physical abuse towards the girl's students and women employees are the key issues. The cell is proactive in many ways by creating awareness among the targeted people regarding this so that such problems do not occur in the campus. Regular programs are also conducted with the help of external agencies to create the awareness. If at all, any such menace happens rarely, proper counselling and rejuvenation sessions for the affected are given.
- v. Class Committee cell: Class committee meetings are held thrice in a semester to know the progress the academic and general progress of the students. Representatives from the class , one senior member from other department constitute the class committee cell. After every cycle test, the committee meets and the practices are discussed. If there any general or specific grievances are registered in the meeting, they are brought to the notice of the higher authorities for rectification.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Prof R Ramanathan and Prof T Ashok organized Alumni meeting on 16th June 2019. Students from all the six departments have attended the meet. Prof R Ramanathan welcomes the gathering and highlighted the significance of Alumni Association. During his speech he insisted all the alumni to give positive and negative feedback about MAMSE and asked everyone to suggest plans for improving the academics. Later, he asked people from reputed companies to come forward and give a seminar on the present industrial practices. Custom such as this would not only be an eye opener to the current students but also to the Faculty team. Later Mr T Ashok highlighted the last two years of placement percentage of MAMSE. He asked the alumni to give the feedback about the Placement cell and suggestions for improvement. Later he requests everyone to extend their cooperation in arranging as many core companies as possible for the future engineers of MAMSE. Departmentwise students came forward to say few insights of about the first job and the nuance which is certainly not avoidable to most of them. Most of the students shared that "irrespective of the nature of job one

has to stick on to the company at least for 6 months to see the plus and minus of that job". Everyone was for sure that within those 6 months he/she would definitely like that job and move on to a higher position if they are sincere. Office bearers of the Association has been selected and announced by Prof Ramanathan and stressed upon their responsibilities and significance of that post. Dr P Ranjithkumar, Principal of MAMSE appreciated the students for their participation in the Alumni meeting. He shared his experience in the company and comments on his job and how it gave shape to him to be an administrator of an organization. He gave a deeper insight into the hierarchies of an organization and explained how to devote our self to the work. Every day is filled with lot of lessons to life one should be curious in learning the outcomes and have diary of events to be achieved in short time and have a master plan for the future. He quoted the lines of Dr A P J Abdul Kalam's quoting about dream and achievements on several occasions and expects everyone to the growth of the nation and spread the power of engineering education. Correspondent Al Haj M A Peer Mohamed acknowledged the views of all the alumni and promised to implement the suggested points as soon as possible. During his speech he makes a point to everyone to take care of their parents and live upto the expectations of them. He also said to all the alumni the door of MAMSE will be open always for them in the years to come. Correspondent suggested having a healthy tradition of identifying a distinguished alumnus and inviting him or her for a special function every year where he or she is honoured with a citation during the farewell.

5.4.2 – No. of enrolled Alumni:

600

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

10000

5.4.4 – Meetings/activities organized by Alumni Association :

01

## **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 top management delegates full authority and freedom to Principal to operate in all areas of institution for its development, In turn, the Principal delegates authority to all HODs, to carry out their activities as per the plan and policies framed by the institution. The faculty members are delegated with authority for subject allocation, paper presentation in National/International conferences and publication of papers in reputed journals. Yes, we have a participative management style and every faculty member can discuss with top management on any policies and plans to promote culture of participative work. All students are encouraged to discuss their academic, personal and value added suggestions with faculty, HOD, top management. All the faculty members have freedom to discuss academic and other subjects with the Principal and top management for the development and improvement of institution.

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
Teaching and Learning	<p>Aiming at the effectiveness of the teaching learning process, the department facilitates the use of various teaching tools such as ? Use of Power Point Presentations ? Use of Overhead projector ? Use of LCD projector ? Illustrative charts are used ? Cutsection models are also used to make students easily understand some complicated concepts ? NPTEL and Tutorials classes are arranged for the students to enrich their knowledge in the subjects ? Assignments are given to the students periodically to develop their skills in solving the problems in analytical subjects ? Guest Lectures are arranged accordingly by eminent personalities.</p>
Examination and Evaluation	<p>The continuous internal assessment system formulated by Anna University is strictly followed. In line with this the cycle tests and model examinations are conducted at regular intervals. Based on the performance of the first cycle test, the slow learners and poor performers are identified and special attention is given for them by way of special coaching class and one to one interaction with faculty members for their improvement. The students' performances are closely monitored and the feedbacks on the performance of students are intimated to parents. A special counselling is arranged with their parents in which the improvement points are discussed.</p>
Research and Development	<p>? Every faculty of individual departments along with the students has given project proposals for approval to TNSCST, Chennai. ? The students are encouraged to apply for AICTEECIISTE Chhatra Vishwakarma Awards ? The faculty are motivated to apply for Seminar/workshop proposals to various funding agencies to promote research activities. ? All final year students are given to develop their own project with innovative ideas. ? Mini projects are developed by final and third year students and are exhibited on "Intra project Expo".</p>
Library, ICT and Physical Infrastructure / Instrumentation	<p>We have a central library for use by both the faculty and students. It is well stocked with a large number of reference books, Journals and</p>

eJournals. Since open access system is followed, the students have direct access to the books, Magazines and Journals. Since the library is a member of DELNET the faculty has an easy access to thousands of eJournals and research articles which are used for enhancing their knowledge in the subject. A large number of CDs containing various demos and animations of the operations of various components are available in the library. The following ICT facilities and resources are provided to the faculty members for effective teaching. 1. NPTEL videos and materials 2. eJournals 3. ebooks 4. Open educational resources from USA,UK, Germany etc., 5. Virtual laboratories

**Curriculum Development**

1. For Individual subjects, question bank are prepared as per Anna University curriculum syllabus by individual department and is given to all the students. 2. Slow learners are identified and they have given special coaching classes by giving writing practice unit wise attending important questions. 3. Problem solving methodology and easy approach of solving problems for mathematical oriented subjects. 4. For theory question, students are given practices to write point by point answers with relevant concept details. 5. Result analysis was conducted and one subject failures and two subject failures are found and special coaching classes are conducted. 6. Technical experts in the field of engineering are invited to address the students to seminars to enhance the information on latest trends, technologies and industrial practices. 7. Our institution is motivating the students to develop self esteem and confidence level in facing the examinations by conducting awareness programs to meet the above objectives.

**Human Resource Management**

- Human resource management Our HR department takes care of recruiting the teaching and nonteaching staff for the institution. Their duties are to collect curriculum vitae of the applicants and send them to respective departments. When requirements arise from each department, the human resource will collect the details of the requirement and call the candidates



for the interview through phones, mails and call letters. Once the candidates arrive , the HR will conduct written test, one page write - up which will be scrutinized by the senior faculty and then interview will be arranged. Every candidate has to undergo board presentation on any topic of their interest in front of the panel members and selection will be made according to their performance in the interview and test. After selection, appointment letter will be issued by HR. Training -Orientation programs are given to them and their performance is regularly monitored through student's feedback.

Industry Interaction / Collaboration

- Industry interaction Industry - Institute interaction is to benefit the student community towards their development of employability skill and knowledge. Students get enriched knowledge about practical exposures in industries. They spend their innovative ideas towards the development of existing or new projects in the industries.

Admission of Students

The prospectus of our college contains detailed information regarding the courses offered, the eligibility criteria, the admission procedure, the infrastructural facilities and guidelines pertaining to student wellbeing in the campus and also about the placement details of the passed out students. The college website provides detailed information regarding the academic programmes, the admission procedures, courses offered, respective department faculty profiles, extra /cocurricular activities planned, and online application facility for the applicants. Admission of students also made by a) giving advertisement in leading regional / national dailies, television and radio. b) participating in various educational fairs at different places c) through Alumni

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

E-governace area	Details
Planning and Development	Through MIS, we manage the Planning and Development of all the academic activities .
Administration	Several whatsapp groups have been functioning to effectively implement and monitor the administrative



	activities. The internal circulars are sent through eways.
Finance and Accounts	All the finance and account activities carried out using Tally software.
Student Admission and Support	We have a dedicated MIS tool namely "Prezenta", which provides the facility to take online feedback as well as to send the students' progress report and attendance to the parents through SMS email.
Examination	Anna University provided a transparent online internal assessment system through web portal. In which the institution upload the periodical internal assessment marks, the same can be viewed by the student through their login id.

### 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
2018	S. Maniam Ramasamy	One Day Workshop on "NLP for Educators"	Happy Valley Buisness School, Coimbatore.	1500
2018	D.S. Vidhyasagar	FDP on "Recent Trends in Materials and Manufacturing	National Institute of Technology, Trichy	3000
2019	K.Umarani P.Kavitha V.Durgadevi P.Jency Leena P.Sudha	FDP on "Emerging 5G and its implementation challenges"	K. Ramakrishnan College of Engineering	300
2019	P.Kavitha	FDP on "Emerging 5G and its implementation challenges"	K. Ramakrishnan College of Engineering	300
2019	V.Durgadevi	National level Conference.	M.Kumarasamy college of engineering, Trichy.	1500
2019	P.Jency Leena	FDP on "Power electronics for renewable energy systems"	K. Ramakrishnan College of Engineering	250
2019	P.Sudha	FDP on "Emerging 5G	K. Ramakrishnan College of	300

		and its implementation challenges"	Engineering	
2019	A.Senthamarai Kanan	FDP on "Power electronics for renewable energy systems"	K. Ramakrishnan College of Engineering	250
2019	K.Vinothini	FDP on "Power electronics for renewable energy systems"	K. Ramakrishnan College of Engineering	250
2018	G.Purushothaman	FDP on "Energy management and auditing with hands on training using power quality analyzer"	FDP on "Energy management and auditing with hands on training using power quality analyzer"	250
2018	M. Dharani Devi	National Level Workshop on Hands on Training PLC	SRM TRP Engineering College	1000
2018	G.Purushothaman	Two day workshop on "Introduction to Robotics"	Bannariamman Institute of Technology, Erode	1000
2018	M. Chandrasekar	Two day workshop on "Introduction to Robotics"	Bannariamman Institute of Technology, Erode	1000
2018	K. Karthikeyan	FDP on "Power electronics for renewable energy systems"	K. Ramakrishnan College of Engineering	1000
2019	S. Tamilarasan	FDP on "Dynamics of Machines"	Anna University, BIT Campus, Chennai	1500
2019	P. Selvakumar	FDP on "Dynamics of Machines"	Anna University, BIT Campus, Chennai	1500
2018	R.Ramanathan	National Level Workshop on "Industry 4.0 and Smart Manufacturing Strategies"	Dr. N.G.P. Institute of Technology Chennai.	1500
2018	S. Maniam Ramasamy	National Level Workshop on "Industry 4.0 and Smart Manufacturing Strategies"	Dr. N.G.P. Institute of Technology Chennai.	1500

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

Year	Title of the professional 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)
2019	Renewable energy	NIL	12/01/2019	12/01/2019	5	0
2019	Load flow analysis	NIL	08/02/2019	08/02/2019	4	0
2018	INTRODUCTION TO AUTODESK AUTOCAD	NIL	11/09/2018	12/09/2018	2	0
2019	Wireless Sensor Network	NIL	04/02/2019	04/02/2019	6	0
2019	Ambient Intelligence	NIL	02/02/2019	02/02/2019	6	0
2018	Loads of an Aircraft	NIL	10/07/2019	10/07/2019	5	0
2019	Optimisation Techniques	NIL	07/02/2019	07/02/2019	5	0
2018	Utilization of Modern Automatic methods for increasing the productivity	NIL	21/09/2018	21/09/2018	5	0
2018	Simplification of 5 variable Boolean function using karnaugh map Technique	NIL	18/09/2018	18/09/2018	6	0
2018	ADC and its Types, DAC and its Types	NIL	14/03/2019	14/03/2019	5	0

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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
FDP on "Power electronics for renewable energy systems"	4	27/12/2018	28/12/2018	2
FDP on "Strategic Innovation of Smart Grid using IOT"	3	22/12/2018	22/12/2018	1
FDP on "Energy management and auditing with hands on training using power quality analyzer"	1	25/12/2018	27/12/2018	3
Workshop on Introduction to Robotics	1	27/07/2018	28/07/2018	2
Faculty Development Program	1	27/12/2018	28/12/2018	2
Workshop	1	27/08/2018	28/08/2018	2
FDP on "Industry 4.0 and Smart Manufacturing Strategies"	2	11/09/2018	11/09/2018	1
FDP on "NLP for Educators"	1	18/08/2018	18/08/2018	1
FDP on "Recent Trends in Materials and Manufacturing Engineering"	1	10/12/2018	15/12/2018	5
Faculty Development Program on Dynamics of Machines	2	06/05/2019	11/05/2019	7
Hands on training on PLC	1	20/07/2018	20/07/2018	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

10

96

7

30

## 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>Sabbatical leave for quality improvement,</li> <li>Financial Incentives for paper publication</li> <li>Sponsorship to attend FDP, Workshop and Conferences. Financial support for Project work</li> </ul>	<ul style="list-style-type: none"> <li>Sponsorship for skill upgradation programs</li> </ul>	<ul style="list-style-type: none"> <li>Institutional Scholarship</li> <li>Book bank scheme</li> <li>Financial assistance to attend State level, national level extracurricular and cocurricular events.</li> <li>Financial assistance for best project works.</li> <li>Career guidance</li> </ul>

## 6.4 – Financial Management and Resource Mobilization

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

Every year, Individual departments prepare budget proposals covering current and forthcoming year requirement of laboratory equipments, furniture and facilities based on Anna university syllabus. The proposals of all departments will be concluded and discussed with Principal and management and funds will be distributed appropriately after analyzing the funds position. The institution conduct audit by a qualified chartered accountant every year. The balance sheet is available in our college office. There are no major audit objections pointed out and hence non compliance does not arise.

## 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
M.A.M. School of Engineering	6000000	Merit Sports Scholarship
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## 6.4.3 – Total corpus fund generated

3500000

## 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	ISO	Yes	IQAC
Administrative	Yes	ISO	Yes	IQAC

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

1. Providing feedback on our quality initiatives. 2. Regular participation in meetings with Teachers. 3. Playing effective role in student mentoring in align with Teachers.

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

1. Fire Safety How to use Fire extinguisher 2. First Aid Programme 3. Computer Skill Training program given by Internal experts

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

1. Faculty Development Programme on Counselling and Psychotherapy by Dr. Are Holen M.D., Ph. D., Professor of Behavioural Medicine (Medical Psychology), Dept. of Neuroscience, Faculty of Medicine, Norwegian University of Science and Technology, Trondheim, Norway. 2. Online Student Feedback on Institutional Performance, Curriculum, Library Faculty 3. Intra Institutional Project Expo is conducted every year to improve the intellectual skills problem solving skills among the students. 4. It is mandatory for all faculty to register and complete at least one NPTEL course. 5. All faculty are insisted to publish papers in reputed journals, attend workshop and in plant training. (Minimum one in a semester). 6. Students' internship is mandatory for students during every vocation. 7. Additional Skill Development hour is included in the time table. 8. Training on usage of Smart Board and effective use of ICT in Teaching and Learning

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
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
2018	Students' internship is mandatory for students	30/11/2018	30/11/2018	10/12/2019	150
2018	To publish papers in reputed journals, attend workshop and in plant training (Minimum one in a semester) by all faculty	04/06/2018	04/06/2018	30/05/2019	60
2019	Alumni Meet	15/06/2019	15/06/2018	15/06/2018	50
2018	Orientation programme for First Year students	04/09/2018	04/09/2018	29/09/2018	150
2018	Online Student Feedback on Institutional Performance, Curriculum,	24/07/2018	24/07/2018	26/07/2018	300

	Library Faculty				
2018	Academic and Administrative Audit by External expert (AAA)	10/11/2018	10/11/2018	12/11/2018	96
2018	Faculty Development Programme on Counselling and Psychotherapy	06/10/2018	06/10/2018	06/10/2018	29
2018	Training on usage of Smart Board and effective use of ICT in Teaching and Learning	06/06/2018	06/06/2018	06/06/2018	60
2018	Intra Institutional Project Expo	05/09/2018	05/09/2018	05/09/2018	200
2018	NPTEL course -Mandatory for Faculty	12/06/2018	12/06/2018	27/04/2019	60

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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
Gender Discrimination Safety	05/09/2018	05/09/2019	200	0
Samathuva Pongal Celebration	11/01/2019	11/01/2019	150	300
National Youth Day	12/01/2019	12/01/2019	150	300
Womens day Competitions	07/03/2019	07/03/2019	100	0
World Water Day	22/03/2019	22/03/2019	150	150
Womens Day celebrations	28/03/2019	28/03/2019	200	0
Campaign on World Day of	28/03/2019	28/03/2019	200	0

Fight against sexual Exploitation

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

Solar powered lights Tree plantation in association with Abdul Kalam Educational Trust Water conservation day Global Warming Organic Farming Bio Toilets AICTE Smart India Hackathon'18.

7.1.3 – Differently abled (Divyangjan) friendliness

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

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	09/04/2019	1	Planting Trees	Water scarcity, Reduction in rain fall, Global Warming, Ozone layer depletion	53
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
<b>No Data Entered/Not Applicable !!!</b>		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
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Orientation Programme on "Wings of Wisdom"	04/09/2018	04/09/2018	140
Orientation Programme on "Crafting a successful engineering Career"	05/09/2018	05/09/2018	110
Orientation programme on "What am I to do?"	05/09/2018	05/09/2018	150
Orientation Programme on "Sanitation Health"	08/09/2018	08/09/2018	150
Orientation programme on "Chumma Pesaren"	08/09/2018	08/09/2018	150
Orientation programme on "Clean Green Environment" "Green Projects"	08/09/2018	08/09/2018	150
Orientation Programme on "I am an Engineer - Go the extra mile, it is never crowded there"	20/09/2018	20/09/2018	140
Orientation Programme on "Robotics in Defence"	29/09/2018	29/09/2018	160

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

1. Tree Plantation in association with Abdul Kalam Educational Trust 2. Solar powered street lights 3. Use of LED bulbs for energy saving 4.Special Lecture on Global Warming 5.Water Conservation Day 6.An Interactive session on Bio Toilets by Dr. A. Abdul Rahman. 7.Organic Farming 8.AICTE Smart India Hackathon18 project.

## 7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Teacher Teach Teachers (TTT) program 2. Promoting LSRW skill among students 3.Newspaper Reading Hour Incorporated in Regular Timetable.

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

<https://www.mamse.in/7.2-TTT.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

As a self-financed Institution affiliated to the Anna University, we have to follow the curriculum provided by the university. We found the gaps between theoretical knowledge and practical implications. Our institution takes up this challenge of bridging these gaps. We felt, this challenge is one of our distinctiveness from our peers and also this challenge is well aligned with our Vision and Mission. The process begins from our alumni and ends with our students. But this process is a vicious cycle as, the present students will become an alumnus in future and then they will participate in the process as well. Based on the feedback of alumni and employers, the gaps in curriculum are identified. Along with their input, our faculty members provide suggestions and put them in to final implementable shape. During this preparation stage, the potential subject matter experts (SME) from the industry and from other institutions will be identified and based on their availability, the schedule is prepared. Fortunately, we had a volunteered participation from our alumni in this regard. We successfully implemented this initiative for two years in a row. We are delighted with the involvement and enthusiasm of our students in the way they are utilizing and engaging in this activity. Though we had some issues in allocating an additional economic impetus towards this activity, we are committed to expand this activity.

Provide the weblink of the institution

<http://www.mamse.in>

#### **8.Future Plans of Actions for Next Academic Year**

1. Centre of excellence for Robotics 2. Centre of excellence for 3D Printing 3. 100 Placement. 4. Centre for Cyber Security. 5. To increase research publication by 20 more than present level increase no of patent registrations. 6. To improve the overall results of institution by 5 more than present levels