Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**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.	**07708000971**
Mobile no.	**9894958888**
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**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.P.Lilly Florence**
Phone no/Alternate Phone no.	**09751028553**
Mobile no.	**9345690431**
Registered Email	**iqac@mamse.in**
Alternate Email	**iqacmamse@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.mamse.in/AQAR%202018-2019%20Final%20Submission%20Report.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.mamse.in/Academic%20Calendar%202019-2020.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B**	**2.22**	**2017**	**22-Feb-2017**	**21-Feb-2022**

6. Date of Establishment of IQAC	**14-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)	**17-Oct-2019** **1**	**15**
Regular meeting of	**12-Feb-2020**	**21**

Internal Quality Assurance Cell (IQAC)	1	
Regular meeting of Internal Quality Assurance Cell (IQAC)	19-Oct-2019 1	21
Regular meeting of Internal Quality Assurance Cell (IQAC)	27-Jul-2019 1	21
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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 20192020	TNSCST	2020 365	7500
MAM School of Engineering	PMKVY	NSDC	2019 180	690375
MAM School of Engineering	Unnat Bharath Abhiyan	MHRD	2020 365	50000
MAM School of Engineering	SPDC	AICTE	2019 365	665500
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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 :	**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	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)

1.Effective content delivery using ICT Tools. 2.Regular Internal Auditing. 3. Transparent Online Student feedback system and Collection of feedback from various stakeholders 4. Conduct of Students Forum Meetings 5. Bolstering our best

practice of Teachers Teach Teachers (TTT).

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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 social extension activities among students	Various social extension activities such as Rally on International Day against Drug Abuse and Illicit Trafficking, Cancer awareness program, COVID-19 awareness programmes, Tree plantation, distribution of Rice & Groceries to the underprivileged families residing at adopted villages have been conducted.
Conducting Faculty Development Programmes	Faculty Development programme – Workshop on Art of writing Research Proposals and sources of funding was organized
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 Newspaper hour reading and Skill and Personality Development Programmes. This training helps the students for placement total 168 students of various Departments were placed in different Organizations.
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Council	**18-May-2021**

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 descripiton and a list of modules currently operational (maximum 500 words)	**Management Information System Prezenta Prezentaedu 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. PrezentaEdu Pro consists of various modules like students, staffs, attendance, Marks, students feedback, exam cell, accounts, hostel , transport, bulk sms, etc., 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 Collecting Feedback and facilitating them for Transport Registration. 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, online resources such as google meet app, zoom app, Google classroom, Google forms, YouTube lecture videos, etc 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, counseling 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/entreprene urship	Skill Development
Auto CAD	Auto CAD	18/02/2020	4	Employabil ity	Designing
CREO-Industrial Design	CREO-Industrial Design	27/06/2019	10	Employabil ity	Designing
Auto CAD	Auto CAD	27/06/2019	4	Employabil ity	Designing
Auto CAD – Industrial Design [ODD Sem]Auto CAD – Industrial Design [ODD Sem]	Auto CAD – Industrial Design [ODD Sem]	25/06/2019	10	Employabil ity	Skill Developement
CREO – Industrial Design[ODD Sem]	CREO – Industrial Design[ODD Sem]	25/06/2019	10	Employabil ity	Skill Developement
Auto CAD – Industrial Design [Even Sem]Auto CAD – Industrial Design [Even Sem]	Auto CAD – Industrial Design [Even Sem]	18/02/2020	4	Employabil ity	Skill Developement
CREO – Industrial Design[Even Sem]	CREO – Industrial Design[Even Sem]	18/02/2020	4	Employabil ity	Skill Developement
TCS ION	TCS ION	02/05/2020	14	Employabil ity	Skill Developement

		26/09/2019	14	Employability	Skill Developement
Mahindra pride classroom	Mahindra pride classroom				
Introduction to IoT	Introduction to IoT	14/09/2019	10	Employability	Skill Developement
Innovative Electronics	Value Added course	25/07/2019	03	employability and successful entrepreneur	Home Appliances
Introduction to IoT	Value Added course	14/09/2020	10	Employability	Smart city Homes
Innovative electronics	Value Added course	25/07/2019	03	Employability	Skill Developement
Introduction to IOT	Introduction to IOT	14/09/2019	10	Employability	Skill Developement
Mahindra pride classroom	Mahindra pride classroom	20/09/2019	2	Employability	Skill Developement

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 !!!		
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Aeronautical Engineering	19/06/2019
BE	Computer Science Engineering	19/06/2019
BE	Electrical and Electronics Engineering	19/06/2019
BE	Electronics and Communication Engineering	19/06/2019
BE	Mechanical Engineering	19/06/2019
BE	Mechatronics Engineering	19/06/2019
ME	Power Electronics and Drives	19/06/2019
ME	Computer Integrated Manufacturing	19/06/2019

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

	Certificate	Diploma Course

Number of Students	616	Nil

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
Auto CAD – Industrial Design [ODD Sem]	25/06/2019	22
CREO – Industrial Design[ODD Sem]	25/06/2019	22
Auto CAD – Industrial Design [Even Sem]	15/02/2020	22
CREO – Industrial Design[Even Sem]	15/02/2020	22
Introduction to IoT	14/09/2019	59
Innovative Electronics	25/07/2019	33
Auto CAD	18/02/2020	31
CREO-Industrial Design	27/06/2019	58
Auto CAD	27/06/2019	22
Artificial Intelligence and medical Equipment	15/07/2019	17
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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	Aeronautical Engineering	36
BE	Computer Science and Engineering	5
BE	Electronics and communication Engineering	37
BE	Electrical and Electronics Engineering	20
BE	Mechanical Engineering	21
BE	Mechatronics Engineering	40
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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
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. 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, One page short notes, Voice, Board Presentation, Clarity of Lecture Delivery C) Student welfare: Providing good RO 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 parameters: A) About Timetable Management: Tutorial Hrs, News Paper Hrs. B) Maintaining Library Books, Reputed Journals Magazines C) OD for paper presentation/Conference/Journal publication and for pursuring Ph.D. D) About Grievance redressal, FDP, Examination , 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 culled 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 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
ME	COMPUTER INTEGRATED MANUFACTURING	9	Nill	Nill
ME	POWER ELECTRONICS AND DRIVES	9	1	1
BE	MECHATRONICS ENGINEERING	60	31	16
BE	MECHANICAL ENGINEERING	120	42	24
BE	ELECTRONICS AND	60	30	15

	COMMUNICATION ENGINEERING			
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	60	38	20
BE	COMPUTER SCIENCE AND ENGINEERING	60	48	38
BE	AERONAUTICAL ENGINEERING	60	40	27
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	680	2	91	8	99

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
99	99	9	6	2	6
[View File of ICT Tools and resources](#)					
[View File of E-resources and techniques used](#)					

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

   • Each faculty member is a mentor for a group of 5 to 10 students. He /She will monitor the students' attendance, academic performance, Co-curricular and extra- curricular 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 grievance 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
680	99	1:7

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
99	99	Nill	25	6

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.K.Chandrasekaran	Professor	National Level Award for the Best Academic Researcher-2019 fromDr.Kalam Educational Trust for Tribal.
2019	Dr.K.Chandrasekaran	Professor	Participation in the Regional Convention of "ChhatraVishwakarma Award-2019" held on 18/11/2019 under Southern Region theme of "How to enhance the income of village".
2019	Dr.K.Chandrasekaran	Professor	NPTEL online Certification
2019	Mr.T.Ashok	Associate Professor	National Level Award for the Best Teacher-2019 fromDr.Kalam Educational Trust for Tribal.
2019	Mr.T.Ashok	Associate Professor	Guest Lecture at Kongu Engineering College
2019	Department of Mechanical Engineering	Professor	Best Academic award

2019	Saravanan S	Assistant Professor	NPTEL Online course Certification "Digital Image processing" on jul-oct 2019
2019	Subapradha M	Assistant Professor	NPTEL Online course Certification "Sensors and Actuators" on jul-oct 2019
2019	Dr.P.Lilly Florence	Professor	National Level Award for the Best Mentor -2019 from Dr.Kalam Educational Trust for Tribal.
Nill	Mr.T.Ashok	Associate Professor	NPTEL((Micro Electronics – Devices to Circuits)
[View File](#)			

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	I,III,V,VII /I,II,III,IV	10/01/2020	29/01/2020
BE	101	II,IV,VI, / I,II,III	16/03/2020	15/08/2020
BE	101	VIII / IV	29/09/2020	17/10/2020
BE	104	I,III,V,VII /I,II,III,IV	10/01/2020	29/01/2020
BE	104	II,IV,VI, / I,II,III	16/03/2020	15/08/2020
BE	104	VIII / IV	29/09/2020	17/10/2020
BE	105	I,III,V,VII /I,II,III,IV	10/01/2020	29/01/2020
BE	105	II,IV,VI, / I,II,III	16/03/2020	15/08/2020
BE	105	VIII / IV	29/09/2020	17/10/2020
BE	106	I,III,V,VII /I,II,III,IV	10/01/2020	29/01/2020
[View File](#)				

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,IIIII Questions Answer Key, CIA Result analysis etc. ? Sample copies of test note books are verified and submission of assignments by the students is reviewed periodically by Academic co-ordinators. ? 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. ?Generally, IQAC Audit is carried out once in every semester. ? Due to COVID-19 – a pandemic situation, revision classes and revisions tests were conducted through online using Zoom app, Google meet, Google Classroom, Google forms, etc ? During lock down period, students were made to attend various webinars, conferences, workshops with eminent resource personalities from other states of India.

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, anti-ragging 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 co-curricular 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. ? Due to COVID-19, the end semester examinations for final year students were conducted by Anna University, Chennai through online mode.

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.mamse.in/po_merged.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
101	BE	AERONAUTICAL	28	24	86

104	BE	COMPUTER SCIENCE ENGINEERING	18	15	83
105	BE	ELECTRICAL AND ELECTRONICS ENGINEERING	17	16	94
106	BE	ELECTRONICS AND COMMUNICATION ENGINEERING	20	17	85
114	BE	MECHANICAL ENGINEERING	66	60	91
115	BE	MECHATRONICS ENGINEERING	17	17	100

[View File](#)

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.mamse.in/2.7.1%20sss.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
Students Research Projects (Other than compulsory by the University)	180	MAMSE	0.15	0.15
Projects sponsored by the University	365	MAMSE	1.2	1.2
Students Research Projects (Other than compulsory by the University)	365	TNSCST	0.07	0.07
Students Research Projects (Other than compulsory by the University)	180	MAMSE	0.3	0.3

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
AI ML: Now, Then Beyond	Computer Science and Engineering	06/02/2020
An Introduction to Open MP	Computer Science and Engineering	13/02/2020
Compiler Design	Computer Science and Engineering	20/02/2020
Bigdata Analysis	Computer Science and Engineering	08/06/2020
Data Science using R	Computer Science and Engineering	23/06/2020
Introduction to AWS Core Services	Computer Science and Engineering	30/06/2020
INDUSTRIAAL AUTOMATION AND ROBOTICS	Electronics and Communication Engineering	27/06/2019
IMAGE PROCESSING	Electronics and Communication Engineering	03/07/2019
TECHNICAL QUIZ	Electronics and Communication Engineering	17/07/2019
ARDUINO MICROCONTROLLER	Electronics and Communication Engineering	17/07/2019
LAB VIEW	Electronics and Communication Engineering	24/07/2019
CARRIER GUIDANCE PROGRAM FOR GATE EXAM	Electronics and Communication Engineering	08/01/2020
EMERGING TRENDS IN VLSI	Electronics and Communication Engineering	22/01/2020
BIG DATA AND ARTIFICIAL INTELLIGENCE ANALYSIS	Electronics and Communication Engineering	12/02/2020
RENEWABLE ENERGY BATTERY	Electronics and Communication Engineering	19/02/2020
Electrical Drives and Control	Electrical and Electronics Engineering	25/06/2019
HVAC System	Electrical and Electronics Engineering	02/07/2019
Industrial Automation	Electrical and Electronics Engineering	09/07/2019
Career Development for Engineer	Electrical and Electronics Engineering	06/08/2019
How to score more marks in competitive exams	Electrical and Electronics Engineering	07/01/2020
Lecture on Innovation and Creativity	Electrical and Electronics Engineering	24/01/2020

Power Semiconductor Interfacing Embedded and Internet	Electrical and Electronics Engineering	04/02/2020
Application of solar power in mechanical Systems	Mechanical Engineering	03/01/2020
Advances in machining process	Mechanical Engineering	04/01/2020
Automation and Industrial Robotics	Mechanical Engineering	10/01/2020
Advancements in NDT	Mechanical Engineering	14/02/2020
Recent trends in CAD/CAM	Mechanical Engineering	21/02/2020
Product design using solid works	Mechanical Engineering	24/01/2020
Advanced welding Technology	Mechanical Engineering	28/02/2020
Gesture based Robotics	Mechatronics Engineering	29/06/2019
Embedded System with IOT	Mechatronics Engineering	20/07/2019
Building Automation	Mechatronics Engineering	03/08/2019
Arduino Robots	Mechatronics Engineering	09/08/2019
Arduino Robots	Mechatronics Engineering	10/08/2019
Line Follower Robot Competition	Mechatronics Engineering	14/09/2019
Symposium ACME 2K19	Mechatronics Engineering	28/09/2019
Elocution Competition	Mechatronics Engineering	14/10/2019
Industrial Automation	Mechatronics Engineering	18/02/2020
Bio Mechanics	Mechatronics Engineering	22/03/2020
Industrial Boiler Inspection	Mechatronics Engineering	22/03/2020
Principles of Robotics and its Applications	Mechatronics Engineering	18/05/2020
Micro Fabrication techniques for MEMS	Mechatronics Engineering	26/05/2020
Arduino with Tinker CAD Simulator	Mechatronics Engineering	01/06/2020
Guest Lecture instruction about GATE Examination	Aeronautical Engineering	14/01/2019
Guest Lecture Introduction to internet of things Latest Trends in job market for Engineering	Aeronautical Engineering	01/07/2019
Guest Lecture Biomimetic Aircraft: Engg in Nature's style	Aeronautical Engineering	21/01/2019
Guest Lecture Non-Destructive Testing and	Aeronautical Engineering	29/07/2019

Design softwares application		
Guest Lecture Advances in machining process	Aeronautical Engineering	04/01/2020
Guest Lecture on design and development of structures	Aeronautical Engineering	06/01/2020
Guest Lecture How to Face the Engineering and Competitive Examinations	Aeronautical Engineering	17/02/2020
Guest Lecture Space Technology And ADP	Aeronautical Engineering	03/03/2020
Ninth National Level Technical Symposium	Aeronautical Engineering	28/09/2019
Three days workshop on geometrical dimensioning tolerances	Aeronautical Engineering	24/06/2019
Introduction to IoT Latest Trends in Job Market for Engineering	Computer Science and Engineering	01/07/2019
Artificial Intelligence	Computer Science and Engineering	04/07/2019
Data Mining for Automated Personality Classification	Computer Science and Engineering	09/01/2019

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
Best Student Project Award	Abdul Latiff.S	Dr.Kalam Educational Trust for Tribal.	15/10/2019	Best Student Project Award
Best Student Project Award	Mohammed Hussain.M.R	Dr.Kalam Educational Trust for Tribal.	15/10/2019	Best Student Project Award
Best Student Project Award	Mohamed Ithyas.I	Dr.Kalam Educational Trust for Tribal.	15/10/2019	Best Student Project Award
Southern Region theme of "How to enhance the income of village".	Dr.K.Chandras ekaran	Participation in the Regional Convention of " ChhatraVishwaka rmaAward-2019"	18/11/2019	Innovation
Best Student	T.Indira	Dr.Kalam Educational Trust for Tribal.	15/10/2019	Best Academic Researcher
Best Academic Researcher	Dr.K.Chandras ekaran	Dr.Kalam Educational	15/10/2019	Best Academic Researcher

	Trust for Tribal.	

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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
No Data Entered/Not Applicable !!!					
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
6	4	0

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

Name of the Department	Number of PhD's Awarded
Electronics and Communication Engineering	1

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)
National	Aeronautical Engineering	2	5.5
National	Computer Science and Engineering	2	0
National	Mechatronics Engineering	1	0
International	Electronics and Communication Engineering	7	0
International	Mechanical Engineering	2	0
International	Mechantronics Engineering	7	0
International	Physics	3	5.1

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

Department	Number of Publication
Mechatronics Engineering	6
Mechanical Engineering	1
Physics	1

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Alignment test on portable tabletop mini lathe', Journal of Manufacturing Engineering, vol. 13, no. 1, pp. 59-62.	Dr. K. C handrasekaran	Journal of Manufacturing Engineering	2019	0	M.A.M school of Engineering	Nill
Investigation of dissimilar material TIG weld for boiler panels', International Journal of Trendy Research in Engineering and Technology, vol. 1, no. 2, pp. 11-15.	Dr. K. C handrasekaran	International Journal of Trendy Research in Engineering and Technology	2019	0	M.A.M school of Engineering	Nill
'Tribological behaviour for stir cast Al5086/Gr/Al2O3 hybrid matrix composite', International Journal of Trendy Research in Engineering and Technology, vol. 1, no. 2, pp. 6-10.	Dr. K. C handrasekaran	International Journal of Trendy Research in Engineering and Technology	2019	0	M.A.M school of Engineering	Nill
Microstructural ch	Dr. K. C handraseka	Material Research	2020	0	M.A.M school of	Nill

aracterization and mechanical properties of Al7075/BN metal matrix composites prepared by conventional casting method', Material Research Express, vol.06, pp.066506	ran	Express				Engineering	
Investigation on mechanical and tribological properties of AA5083/ Gr/BN and AA5083/Gr/ Al2O3 hybrid composites for marine applications, Interciencia Journal, vol.45, no.2 pp.346-369	Dr. K. C handrasekaran	Interciencia Journal	2020	0	M.A.M school of Engineering	Nill
Investigation of Nitronic-60 using Zinc Coated Wire, Wutan Huatan Jisuan Jishu, vol.16, no.6 pp.123-130.	Dr. K. C handrasekaran	Wutan Huatan Jisuan Jishu	2020	0	M.A.M school of Engineering	Nill
'Optimization of drilling process parameters	Dr. K. C handrasekaran	GEDRAG ORGANISATIE REVIEW	2020	0	M.A.M school of Engineering	Nill

of electrical discharge machining in Inconel 718 material, GEDRAG ORGANISATIE REVIEW, vol.33, no.2 pp.1983-1993.						
Iot Enabled Economic Human Safety For Co Emission Constraints With Self-Alert System	T.ASHOK	International Journal of Information and Computing Science	2020	0	M.A.M school of Engineering	Nill
Iot Enabled Economic Human Safety For Co Emission Constraints With Self-Alert System	P.KAVITHA	nternational Journal of Information and Computing Science	2020	0	M.A.M school of Engineering	Nill
Bluetooth And Gsm Based Intelligent Vehicle Systems For Women Safety Using Embedded Technology	T.ASHOK	International Journal of Information and Computing Science	2020	0	M.A.M school of Engineering	Nill

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
'Tribological	Dr. K. Chandraseka	International	2019	8	8	MAM School of

behaviour for stir cast Al5086/Gr/Al2O3 hybrid matrix composite', International Journal of Trendy Research in Engineering and Technology, vol. 1, no. 2, pp. 6-10.	ran	Journal of Trendy Research in Engineering and Technology					Engineering
Investigation of dissimilar material TIG weld for boiler panels', International Journal of Trendy Research in Engineering and Technology, vol. 1, no. 2, pp. 11-15.	Dr. K. C handrasekaran	International Journal of Trendy Research in Engineering and Technology	2019	8	8		MAM School of Engineering
Alignment test on portable tabletop mini lathe', Journal of Manufacturing Engineering, vol. 13, no. 1, pp. 59-62.	Dr. K. C handrasekaran	Journal of Manufacturing Engineering	2019	8	8		MAM School of Engineering
Microstructural characterization and mechanical properties of Al7075/BN metal	Dr. K. C handrasekaran	Material Research Express	2020	8	8		MAM School of Engineering

matrix composites prepared by conventional casting method', Material Research Express, vol.06, pp.066506						
Investigation on mechanical and tribological properties of AA5083/Gr/BN and AA5083/Gr/Al2O3 hybrid composites for marine applications, Interciencia Journal, vol.45, no.2 pp.346-369	Dr. K. C handrasekaran	Interciencia Journal	2020	8	8	MAM School of Engineering
Investigation of Nitronic-60 using Zinc Coated Wire, Wutan Huatan Jisuan Jishu, vol.16, no.6 pp.123-130.	Dr. K. C handrasekaran	Wutan Huatan Jisuan Jishu	2020	8	8	MAM School of Engineering
'Optimization of drilling process parameters of electrical discharge machining in Inconel 718 material,	Dr. K. C handrasekaran	GEDRAG O RGANISATIE REVIEW	2020	8	8	MAM School of Engineering

GEDRAG ORGANISATIE REVIEW, vol.33, no.2 pp.1983-1993.						
Iot Enabled Economic Human Safety For Co Emission Constraints With Self-Alert System	T.ASHOK	International Journal of Information and Computing Science	2020	3	3	MAM School of Engineering
Investigation of Nitronic-60 using zinc Coated Wire	R.Ramanathan	WUTAN HUATAN JISUAN JISHU	2020	3	3	MAM School of Engineering
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nill	243	Nill	Nill
Presented papers	5	2	Nill	Nill
Resource persons	Nill	Nill	1	Nill
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
Spark 2020 (Fight against COVID-19)	UBA - MAM School of Engineering	5	800
Webinar on "Miss. Corona-The uninvited Guest	UBA - MAM School of Engineering	5	80
Webinar on "These too will pass away"	IQAC - MAM School of Engineering	7	244
Webinar on " My Environment Nature"	IQAC Student's Exnora, MAM School	5	124

	of Engineering			
Webinar on " Bio-diversity in Mangroove Forests"	IQAC Student's Exnora, MAM School of Engineering	5		167
Webinar on " Be an Eagle"	IQAC Rotaract of MAM School of Engineering	5		214
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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
No Data Entered/Not Applicable !!!			
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Red Ribbon Club (RRC) and Youth Red Cross (YRC) of MAMSE	Uyir thuli Blood Bank Research Centre, Thillainagar, Trichy	Cancer Awareness Program	15	120
Red Ribbon Club (RRC) and Youth Red Cross (YRC) of MAMSE	Uyir thuli Blood Bank Research Centre, Thillainagar, Trichy	Corona Awareness Program 10.3.2020	15	120
IQAC	Government Hospital, Peravurani	Awareness program on "COVID-19" 11.3.2020	15	120
IQAC	KAPV Govt. Medical College, Trichy.	Awareness program on Corona Virus 12.3.2020	15	170
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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
Journal Publication	4	Nil	1
Journal Publication	4	Nil	1
Journal	2	Nil	1

Publication				
Short term courses	14	PMKVY		2
Webinar	51	Rajalakshmi Engineering College		1
Guest Lecture	40	DhanalakshmiSrinivasan Engineering College		1
Webinar	50	MAM School of Engineering		1
Webinar	52	MAM School of Engineering		1
Webinar	45	MAM School of Engineering		1
Guest Lecture	50	M.A.M polytechnic college		1
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Faculy Intership	Internship	Kothari Sugar Mills	06/12/2019	09/12/2019	1
Faculy Intership	Internship	Kothari Sugar Mills	07/12/2019	09/12/2019	1
Faculy Intership	Internship	Kothari Sugar Mills	08/12/2019	09/12/2019	1
Faculy Intership	Internship	High Energy Batteries	18/12/2019	21/12/2019	1
Faculy Intership	Internship	High Energy Batteries	18/12/2019	21/12/2019	1
Faculy Intership	Internship	St.Peters Institute of Higher Education Research	01/04/2020	10/04/2020	1
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs

PANTECH PROED PVT LTD, Tiruchirappalli	05/02/2020	TRANING AND WORK SHOP TECHICAL	49

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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
300	279

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

No file uploaded.

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	16980	4047997	1324	455545	18304	4503542
Reference Books	446	200000	Nill	Nill	446	200000
e-Books	600	6000	100	1000	700	7000
Journals	550	741056	76	116531	626	857587
e-Journals	1	201620	1	13570	2	215190
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	961	38440	564	28200	1525	66640

Library Automation	1	15000	Nill	Nill	1	15000
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(specify)	3719	587838	3254	750152	6973	1337990

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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	322	7	48	2	296	8	18	48	0
Added	0	0	0	0	0	0	0	0	0
Total	322	7	48	2	296	8	18	48	0

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
Digital Library	http://www.delnet.in
NPTEL Nodal Centre	[https://onlinecourses.nptel.ac.in /](https://onlinecourses.nptel.ac.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
12.49	52.95	31.62	49.45

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 back-up is maintained by a team of electricians. There is a transport in-charge 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 pre-coaching 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://www.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	Women, Merit, Sports, Farmer and Muslim Scholarship	366	5202225
Financial Support from Other Sources			
a) National	1. National Scholarship 2. Adi Dravidar Welfare Scholarship (SC/ST) 3. BC MBC Scholarship	559	32101735
b)International	Nil	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	20/09/2019	126	Mahendira Pride Classroom
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	Training and Palcement	168	168	Nill	168
2020	GATE Coaching	257	257	Nill	217
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
9	168	168	Nill	Nill	Nill
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
No Data Entered/Not Applicable !!!					
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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
No Data Entered/Not Applicable !!!	
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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
No Data Entered/Not Applicable !!!		
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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
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Each department has a student's 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. Anti-Ragging 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 antiragging@mamse.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

On Principals behest Prof R.Ramanathan organized Alumni meeting conducted through Google Meet (by online mode) due to COVID'19 pandemic situation on 17th Oct'2020. Students from all the six departments have attended the meeting. The

Alumni Co Ordinator Prof R Ramanathan welcomes the gathering and highlighted the significance of Alumni Association. During his speech he insisted all the alumni to give feedback about MAMSE and asked everyone to suggest plans for improving the academic as well as well as their juniors. Also 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 Heads of various dept introduces themself to the student's community and highlighted the last two years of placement percentage and bear their good memories of MAMSE. They insists everyone to extend their cooperation in arranging as many core companies as possible for the future engineers of MAMSE.Department wise students came forward to say few insights of about the first job and how could they overcome that challenges. Dr.P.Ranjithkumar, Our beloved 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 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. Also he expressed his expectation that everyone to work for the growth of nation development and prove 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 honored, felicitated and presented with a citation during the farewell function for outgoing students.

5.4.2 – No. of enrolled Alumni:
248

5.4.3 – Alumni contribution during the year (in Rupees) :
0

5.4.4 – Meetings/activities organized by Alumni Association :
1

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 preference, paper presentation in National/International conferences and publication of papers in reputed journals. 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
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 /co-curricular 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
Industry Interaction / Collaboration	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.
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.
Library, ICT and Physical Infrastructure / Instrumentation	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 e-journals. 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 e-journals 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. e-Journals 3. e-books 4. Open educational resources from USA,UK, Germany etc., 5. Virtual laboratories Master plan indicating the physical infrastructure attached.
Research and Development	? 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 AICTE-ECI-ISTE ChhatraVishwakarma 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".
Examination and Evaluation	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.
Teaching and Learning	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 ? Cut-section 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.
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

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 e-ways.
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 e-mail.
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
2020	Dr.K.Chandrasekaran	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	J.Jebapriyadharshini	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	S.Murugavalli	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	K.Sathish Kumar	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	T.Ashok	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	Sudha P	ASET- Art and	Saveetha	350

2020	Chandrasekar M	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	Dr.Lilly Florence	ASET- Art and Skills for Effective Teaching from	Saveetha Engineering College, Chennai.	350
2020	K.Vinothini	Electrical Power and Energy System-2 020(epes-2K20)	Kongunadu College of Engineering and Technology	100
2020	K.Vinothini	Robotics Automation Engineering -2K 20(NCRAE-2K20	Er.PerumalMan imekalai College of Engineering	100

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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)
2020	Optimiza tion techniques	Optimiza tion techniques	15/06/2020	15/06/2020	8	1
2020	Influence of process parameters in turning for aircraft c omponents"	Influence of process parameters in turning for aircraft c omponents"	22/06/2020	22/06/2020	7	1
2020	Laser material processing for tribol ogical app lications	Laser material processing for tribol ogical app lications	29/06/2020	29/06/2020	8	1
2020	Composite materials in aircraft	Composite materials in aircraft	10/02/2020	10/02/2020	7	1
2020	Stress analysis	Stress analysis	14/02/2020	14/02/2020	8	1

2019	Quantum Computing	Quantum Computing	26/10/2019	26/10/2019	6	1
2020	Graphics Multimedia	Graphics Multimedia	11/01/2020	11/01/2020	6	1
2020	ARM Processors its application	Nill	09/03/2020	09/03/2020	12	Nill
2020	Embedded system design Process	Nill	16/03/2020	16/03/2020	12	Nill
2019	Electrical Measurement and Instrumentation	Nill	21/07/2019	21/07/2019	5	Nill

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Online Faculty Development Program – Image and signal processing	1	27/04/2020	01/05/2020	5
Faculty Development Program – Robotics	1	25/11/2019	29/11/2019	5
Online Faculty Development Program – Artificial Intelligence	1	24/04/2020	28/04/2020	5
Role of IOT, Embedded, Electric vehicle and Power Electronics converters for the smart world	2	18/05/2020	22/05/2020	5
	1	27/04/2020	01/05/2020	5

"Technological Advancements in Power System Control, Power Controllers, Drives and E-Vehicles"				
Latest Wireless And Computing Technologies	1	14/04/2020	18/04/2020	5
Digital Tools for Learning	2	12/05/2020	18/05/2020	6
Recent Advances in Signal Processing, RF and Wireless Communication	2	23/09/2019	29/09/2019	6
FDP on LaTex	1	29/04/2020	05/05/2020	7
Art Skills for Effective Teaching	17	25/05/2020	06/06/2020	10

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
99	99	30	30

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Sabbatical leave for quality improvement, Financial Incentives for paper publication Sponsorship to attend FDP, Workshop and Conferences. Financial support for Project work.	• Sponsorship for skill upgradation programs	• Institutional Scholarship • Book bank scheme • Financial assistance to attend State level, national level extracurricular and co-curricular events. • Financial assistance for best project works. • Career guidance

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	5202225	Women, Merit, Sports, Farmer and Muslim 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	Mr.Thiraviya Suyambu	Yes	IQAC
Administrative	Yes	Mr.Thiraviya Suyambu	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 Psychotherapyby 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 atleast 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	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
2019	Guest Lecture GATE Examination Awareness Program	14/01/2019	14/01/2019	14/01/2019	35
2019	Guest Lecture introduction to internet of things Latest Trends in job market for engineering	01/07/2019	01/07/2019	01/07/2019	58
2019	Guest Lecture modern technologies used in paper industry	21/01/2019	21/01/2019	21/01/2019	15
2019	Guest Lecture non destructive testing and design software's application	29/07/2019	29/07/2019	29/07/2019	58
2020	Guest Lecture Advances in machining process	04/01/2020	04/01/2020	04/01/2020	78
2020	Guest Lecture how to face the engineering and competitive examinations	06/01/2020	06/01/2020	06/01/2020	45
2020	Guest Lecture about the integrity inspection in industry	17/02/2020	17/02/2020	17/02/2020	45
2020	Guest Lecture Space Technology And ADP	03/03/2020	03/03/2020	03/03/2020	45

2019	Webinar on OPTIMIZATION TECHNIQUES	28/09/2019	28/09/2019	28/09/2019	45
2020	Webinar on INFLUENCE OF PROCESS PARAMETERS IN TURNING FOR AIRCRAFT COMPONENTS	15/06/2020	15/06/2020	15/06/2020	43
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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
Interactive Session on "Women Business"	27/09/2019	27/09/2019	105	Nill
Women's day competitions	04/03/2020	08/03/2020	40	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
? Solar powered lights ? Tree plantation in association with Abdul Kalam Educational Trust ? Use of LED bulbs for energy saving ? Spark2020-Online Competitions with theme "Fight against Corona" ? A special lecture on "Miss. Corona : the uninvited Guest" by Dr.A.Abdul Rahman ? World Environment Day Celebration by conducting National Level Quiz, Competitions on Drawing, Essay Writing, Meme creation, etc ? On World Environment Day, the webinar on "My Environ Natutre" by Exn. P.Mohan, Founder, Youth International Exnora ? On World Environment Day, an awareness programme on " Bio-diversity in Mongroove forests" by Dr. A. Abdul Rahman, Eminent Scientist ? Campaign on Home Compost has been conducted to promote organic fertilizers ? Participation in the Regional Convention of "Chhatra Vishwakarma Award-2019" held on 18/11/2019 under Southern Region theme of "How to enhance the income of village".

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	No	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
2020	1	1	15/10/2019	1	Tree Plantation	Water scarcity, Reduction in rain fall, Global Warming, Ozone layer depletion	50

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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)
No Data Entered/Not Applicable !!!		

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
6th Graduation Day	15/06/2019	15/06/2019	300
Students Exnora Annual General Body Meeting	01/08/2019	01/08/2019	50
Freshers' Day	07/08/2019	07/08/2019	275
Orientation Programme "Kaun Banaga Engineer"	08/08/2019	08/08/2019	140
Orientation programme on " "How the Engineering Best than Other Courses"	09/08/2019	09/08/2019	140
Interactive Session on "Women Business"	27/09/2019	27/09/2019	105
ACME 2K19- 9th National Level Technical Symposium	28/08/2019	28/08/2019	410

87th Kalam Birth Anniversary Celebration National Award Ceremony	15/10/2019	15/10/2019	250
Kalam 88000 – Sapling of Palm Trees	15/10/2019	15/10/2019	100
Bharathi Ula	10/01/2020	10/01/2020	250
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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. A special lecture on "Miss. Corona : the uninvited Guest" by Dr.A.Abdul Rahman 5. World Environment Day Celebration by conducting National Level Quiz, Competitions on Drawing, Essay Writing, Meme creation, etc 6. On World Environment Day, the webinar on "My Environ Natutre" by Exn. P.Mohan, Founder, Youth International Exnora 7. On World Environment Day, an awareness programme on " Bio-diversity in Mongroove forests" by Dr. A. Abdul Rahman, Eminent Scientist 8. Campaign on Home Compost has been conducted to promote organic fertilizers

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 through Skill and Personality Development Cell 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/TTT%202019-2020.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 7. MoUs with more industry for Internships and Placement 8. Provide more value added courses to students. 9. Increase no of student internships 10. To establish MHRDs Institution's Innovation Council and to promote themes such as Innovation, Startups, Entrepreneurship and IPR. 11. To organize various activities in association with - The Institution of Green Engineers (IGEN)