

Annual Quality Assurance Report (2017-2018)

Submitted to



National Assessment and Accreditation Council,
Bangalore -560072.

Submitted by,



Internal Quality Assurance Cell (IQAC)
M.A.M.School of Engineering,
Siruganur, Tiruchirappalli
Tamilnadu-621105.

Part – A

1. Details of the Institution

1.1 Name of the Institution

M.A.M.School of Engineering

1.2 Address Line 1

Trichy-Chennai Trunk Road,

Address Line 2

Siruganur,

City/Town

Trichirappalli

State

Tamil Nadu

Pin Code

620005

Institution e-mail address

principal@mamse.in

Contact Nos.

9894958888

Name of the Head of the Institution:

Dr.P.Ranjithkumar

Tel. No. with STD Code:

0431-2910219

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9894958888

Name of the IQAC Co-ordinator:

Prof.B.Chandiramohan

Mobile:

9994563101

IQAC e-mail address:

Iqacmamse17@gmail.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

TNCOGN26179

1.4 NAAC Executive Committee No. & Date:

EC(SC)/22/A&A/47.1 dated 22/2/2017

1.5 Website address:

www.mamse.in

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.22	2017	2017-2022
2	2 nd Cycle	-	-	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC:

12/12/2015

1.8 AQAR for the year

2017-2018

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011))

- i. AQAR _____ NIL
- ii. AQAR _____ NIL
- iii. AQAR _____ NIL
- iv. AQAR _____ NIL

1.10 Institutional Status

University	- Not Applicable
Affiliated College	- Yes
Constituent College	- No
Autonomous college of UGC	- No
Regulatory Agency approved Institution	- Yes
Type of Institution	- Co-education - Rural
Financial Status	- UGC 2(f) - Totally Self-financing

1.11 Type of Faculty/Programme - **Engineering**

1.12 Name of the Affiliating University

ANNA UNIVERSITY

1.13 Special status conferred by Central/ State Government-- **NIL**

Autonomy by State/Central Govt. / University **NIL**

University with Potential for Excellence **NIL**

DST Star Scheme **NIL**

UGC-Special Assistance Programme **NIL**

UGC-Innovative PG programmes **NIL**

UGC-COP Programmes **NIL**

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="7"/>							
2.2 No. of Administrative/Technical staff	<input type="text" value="02"/>							
2.3 No. of students	<input type="text" value="05"/>							
2.4 No. of Management representatives	<input type="text" value="01"/>							
2.5 No. of Alumni	<input type="text" value="02"/>							
2.6 No. of any other stakeholder and community representatives	<input type="text" value="01"/>							
2.7 No. of Employers/ Industrialists	<input type="text" value="01"/>							
2.8 No. of other External Experts	<input type="text" value="01"/>							
2.9 Total No. of members	<input type="text" value="20"/>							
2.10 No. of IQAC meetings held	4							
2.11 No. of meetings with various stakeholders: No.	<input type="text" value="9"/>	Faculty	<input type="text" value="4"/>					
	Non-Teaching Staff	<input type="text" value="4"/>	Students	<input type="text" value="4"/>	Alumni	<input type="text" value="1"/>	Others	<input type="text" value="--"/>
2.12 Has IQAC received any funding from UGC during the year? --	No							
If yes, mention the amount	<input type="text" value="--"/>							
2.13 Seminars and Conferences (only quality related)								
(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC								
Total Nos.	<input type="text" value="12"/>	International	<input type="text" value="1"/>	National	<input type="text" value="1"/>	State	<input type="text" value="--"/>	
Institution Level	<input type="text" value="10"/>							

(ii) Themes

- 1. Six Sigma Quality awareness**
- 2. CNC Programming**
- 3. Non Destructive Testing Methods**
- 4. Industrial automation**
- 5. Rapid Prototyping**
- 6. 3D Modelling and Printing**

2.14 Significant Activities and contributions made by IQAC

- 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 co-curricular activities.**
- 5. Nurturing the entrepreneurial skills of students.**
- 6. Developing the general awareness and communication skill of students.**

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
1. Increase the usage of ICT tools in content delivery	<ul style="list-style-type: none">• The learning becomes more visualized and interactive.• More than 10000 E-books, Journals, Videos were downloaded and archived in central library for the usage of students and faculty members.
2. Regular Internal Auditing	IQAC conducts end semester audit on course contents, records and associated files. This process aids to regularise the academic and administrative systems.

<p>3. Transparent Online Student feedback system.</p>	<ul style="list-style-type: none"> • A systematic and transparent feedback system implemented using Prezenta Software. • By this approach, the actual realities of academic and administrative issues are explored. • It is an effective tool for self development and enhancing the skill of faculty members.
<p>4. Facilitation and support to the students for their co-curricular activities.</p>	<ul style="list-style-type: none"> • Institution laboratory and associated facilities provided to the students during working hours and beyond working hours for their project developments, article preparations etc., • Financial assistance provided to the students to attend national and international level skill development programs. • By the above mentioned initiatives, the publications and achievements of students in co-curricular activities increased by 50% than in the previous academic year.
<p>5. Nurturing the entrepreneurial skills of students.</p>	<ul style="list-style-type: none"> • Dedicated Entrepreneurship Development Cell formed in 2015. It inculcates the entrepreneurial ideas among students. • With the promotion of this Cell, Two of our student projects were shortlisted for Smart India Hackathon 2018, organized by

	MHRD, Govt. Of India.
6. Developing the general awareness and communication skill of students.	<ul style="list-style-type: none"> • In this smart phone era, the reading habit and the eagerness to know about what is happening around the world, is diminishing. To revive that we encourage the students to read newspapers daily and even we allotted a period in a day. • By this approach, the general awareness among students is found slightly improved and their communication skills enhanced then earlier.

2.15 Whether the AQAR was placed in statutory body : **Yes**

Management

Provide the details of the action taken

AQAR for 2017-18 submitted to Top management. Since this is first AQAR, the details of action taken will be made available in upcoming AQAR.

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	--	--	--	--
PG	01	--	01	--
UG	06	--	06	--
PG Diploma	--	--	--	--
Advanced Diploma	--	--	--	--
Diploma	--	--	--	--
Certificate	--	--	--	--
Others	--	--	--	--
Total	07	--	07	==

Interdisciplinary	--	--	--	--
Innovative	--		--	--

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	07
Trimester	--
Annual	--

1.3 Feedback from stakeholders* Alumni yes Parents yes Employers yes
 Students yes
 (On all aspects)
 Mode of feedback : Online yes Manual yes
 Co-operating schools (for PEI) --

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

NO

1.5 Any new Department/Centre introduced during the year. If yes, give details.

NO

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	101	71	18	12	--

2.2 No. of permanent faculty with Ph.D.

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
17	--	--	--	1	--	--	--	18	--

2.4 No. of Guest and Visiting faculty and Temporary faculty

2	--	--
----------	----	----

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	4	6	--
Presented	12	48	--
Resource Persons	--	1	1

2.6 Innovative processes adopted by the institution in Teaching and Learning:

1. ICT enabled class rooms and content delivery 2. Transparent- online feedback system

2.7 Total No. of actual teaching days during this academic year

160

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Anna University initiates such reforms.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

01		
-----------	--	--

2.10 Average percentage of attendance of students

85

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared (NOV-DEC 2017)	Division				
		Distinction %	I %	II %	III %	Pass %
B.E.(Aero)	59	NIL	7	--	--	11.86
B.E.(CSE)	70	NIL	14	---	---	20.00
BE (ECE)	69	NIL	11	1	--	17.39
BE(Mech)	183	--	22	--	--	12.02
BE(Mechatronics)	66	--	4	7	--	16.00
BE(EEE)	60	--	14	--	--	23.33

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

1. Logbooks 2. Academic Reviews 3. Academic Audit

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	4
UGC – Faculty Improvement Programme	--
HRD programmes	6
Orientation programmes	2
Faculty exchange programme	--
Staff training conducted by the university	2
Staff training conducted by other institutions	8
Summer / Winter schools, Workshops, etc.	10
Others	--

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	23	--	--	--
Technical Staff	9	--	--	--

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- 1. Student projects promoted and get recognition from TNSSTC, Start up India,**
- 2. EDC activated on Promotion of Entrepreneurs under PM-YUVA YOJNA Scheme.**
- 3. Initiatives taken to setup research lab on Robotics and CNC system**

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number		1		
Outlay in Rs. Lakhs	--	1.4	--	--

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number			1	
Outlay in Rs. Lakhs			0.2	

3.4 Details on research publications

	International	National	Others
Peer Review Journals	32	9	--
Non-Peer Review Journals	21	13	--
e-Journals	10	30	--
Conference proceedings	76	35	--

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	--	--	--	--
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored	--	--	--	--

Projects sponsored by the University/ College	--	--	--	--
Students research projects (other than compulsory by the University)	2017-18	TNSTC	Rs 30,000	--
Any other(Specify)	2017-18	Start up India	--	--
	2017-18	PM-YUVA YOJNA	Rs.1,40,000	
Total		3	--	--

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	01			10
Sponsoring agencies	Management				Management

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaboration International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	2
	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
02		02				

3.18 No. of faculty from the Institution who are Ph. D. Guides
and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level National level International level

3.22 No. of students participated in NCC events:

University level State level National level International level

3.23 No. of Awards won in NSS:

University level State level National level International level

3.24 No. of Awards won in NCC:

University level State level National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- **Activities conducted on Social, Arts and Science and Cultural programs such as RYLA, Robotics**

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	46295sq.m	--		46295sq.m
Class rooms	27	2		29
Laboratories	36	--		36
Seminar Halls	2	--		2
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	1		1
Value of the equipment purchased during the year (Rs. in Lakhs)	--	1.5		--
Others	--	--		--

4.2 Computerization of administration and library

Administration services are computerised and DELNET software is available in Library operations

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value in Rupees
Text Books	16628		352	83,538	16980	42,47,997
Reference Books	446				446	
e-Books						
Journals	88				88	2,50,000
e-Journals						
Digital Database	DELNET	13,570				13,570
CD & Video	600		171		771	
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	302	8	48mbs	1	1	10	17	--
Added	--	--	--	--	--	--	--	--
Total	302	8	48mbs	1	1	10	17	--

4.5 Computer, Internet access, training to teachers and students and any other programme for technology up gradation (Networking, e-Governance etc.)

NPTEL Training, DELNET

4.6 Amount spent on maintenance in lakhs :

i) ICT 2

ii) Campus Infrastructure and facilities 5

iii) Equipments 2

iv) Others 1

Total : 10

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. Providing Mentoring to the students regularly.
2. Facilitating students with technical clubs to exhibit their talents.
3. All the student support units are having the student members, through whom enough publicity is given among students.
4. Students who are trained and supported by units such as Entrepreneurship Development Cell, Incubation centre, etc., were recognized through awards and incentives. This will enhance the awareness of student support services among students.

5.2 Efforts made by the institution for tracking the progression

- 1. Academic Audit**
- 2. Feedback from students**
- 3. Faculty Advisor counselling**

5.3 (a) Total Number of students	UG	PG	Ph. D.	Others
	782	4	--	--

(b) No. of students outside the state

(c) No. of international students

Men

No	%
606	77

Women

No	%
176	23

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2	293	--	322	--	617	16	406	6	354	-	782

Demand ratio : 1 Dropout 2%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

GATE examination coaching
PSU Examination Coaching
Aptitude Training
Technical Skill development

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- 1. One faculty member is allotted as Mentor for every 10 students. He/She will monitor and mentor the student till the end of course (4 years). It will pave the way for individual care.**
- 2. Women grievance & redressal cell take care the issues faced by girl students**
- 3. Through the support services mentioned in 5.4, the students were provided career guidance. Also our alumni association is doing its contribution in this aspect to develop the skills of our students in right direction for the better career.**

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
10	100	62	10

5.8 Details of gender sensitization programmes

An awareness program on Women sexual harassment in working places and the ways to prevent it was conducted by women lawyers.

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount in Rs
Financial support from institution	45	10,39,000
Financial support from government	362	1,70,09,400
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

1.College timing revised from 5.00pm to 4.30pm

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

To deliver the highest quality engineering education, create cutting edge research and innovative technology for the benefit of the society locally & globally.

MISSION

To be recognized as a leader in engineering education, research and application of technology to benefit society.

6.2 Does the Institution has a management Information System

YES

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

1.Value added courses

6.3.2 Teaching and Learning

1. ICT enabled class rooms and content delivery

2.Transparent- online feedback system

6.3.3 Examination and Evaluation

Feedback Analysis

6.3.4 Research and Development

- 1. Student projects promoted and get recognition from TNSTC, Start up India,**
- 2. EDC activated on Promotion of Entrepreneurs under PM-YUVA YOZNA Scheme.**
- 3. Initiatives taken to setup research lab on Robotics and CNC system**

6.3.5 Library, ICT and physical infrastructure / instrumentation

1.E-books 2. Databases: DELNET, NPTEL

6.3.6 Human Resource Management

Providing Sabbatical leave to encourage the faculty members to go for higher studies

6.3.7 Faculty and Staff recruitment

- 1. Only Post Graduates called for Interview as per AICTE norms.**
- 2. Stringent procedures through reputed panel members from industry & academic institution.**

6.3.8 Industry Interaction / Collaboration

- 1. Active, exclusive Industry-Institute Interaction cell**
- 2. Number of MOU's with industries for Industrial visit, In plant training and placement.**

6.3.9 Admission of Students

- 1. Tamilnadu Government Single Window Counselling scheme**
- 2. Admission through Consortium of self financing professional, arts and science colleges of Tamilnadu**

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none">• Sabbatical leave for quality improvement, Financial Incentives for paper publication Sponsorship to attend FDP, Workshop and Conferences.• Financial support for Project work
Non teaching	Sponsorship for skill upgradation programs
Students	<ul style="list-style-type: none">• 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

6.5 Total corpus fund generated

Rs.27,00,000

6.6 Whether annual financial audit has been done **Yes**

6.7 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

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes **Yes**

For PG Programmes **Yes**

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Change of Syllabus to suit Industrial needs.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Transparent Academic System

6.11 Activities and support from the Alumni Association

- 1. Internship, In plant training and Industrial visit for students**
- 2. Carrier guidance for students and skill improvement**

6.12 Activities and support from the Parent – Teacher Association

Parent-teacher meeting and counselling with students to improve Quality education

6.13 Development programmes for support staff

Training program given from neighbour industries for skill development

6.14 Initiatives taken by the institution to make the campus eco-friendly

- 1. Planting trees**
- 2. Solar powered street lights**
- 3. Use of LED bulbs for energy saving**

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Newspaper-reading scheme: Students are allowed to read Newspaper(Times of India)in regular Time Table (one period allotted)and this practice habituated among rural students to know inside and outside world activities(Technical & Commercial) and are asked the students to brief any paragraph news content in English.

Promotion of Extracurricular activities: Students are encouraged and given more opportunity to participate in events conducted in other colleges also internally to develop their Skills in arts/cultural/projects/paper presentation/sports events.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Minimum two Industrial visits per semester: outcome of this plan encouraged student's placement on core companies by Interaction with companies. All the final year students are motivated to publish their project in conference and journals etc. Also students are encouraged to go for in plant training during their vacation for to know about Industrial development

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. **Teacher Teach Teachers (TTT) program**
2. **Learn wise online learning (Wadhani Foundations)**

7.4 Contribution to environmental awareness / protection

1. **Planting trees**
2. **Solar powered street lights**
3. **Use of LED bulbs for energy saving,**
4. **Initiatives on Gas power plant etc.**
5. **Kalam Garden**
6. **Projects on reconditioning of Sanitary Napkins**
7. **Food preservation scheme.**

7.5. Whether environmental audit was conducted? **No**

7.6. Any other relevant information the institution wishes to add. (for example SWOT Analysis)

8. Plans of institution for next year

1. **IIT-Incubation centre for Robotics**
2. **To increase research publication by 20% more than present level**
3. **To improve the overall results of institution by 5% more than present level.**

Name : B.Chandiramohan

Name: Dr.P.Ranjith Kumar

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
