

Annual Quality Assurance Report (AQAR)

2016-2017

of the Internal Quality Assurance Cell (IQAC)



Mahendra College of Engineering,

Salem- Chennai Highway
Minnampalli, Salem 636106

The Annual Quality Assurance Report (AQAR) of the IQAC (2016-17)

Part – A

I. Details of the Institution

1.1 Name of the Institution	Mahendra College of Engineering, Salem
1.2 Address Line 1	Salem-Chennai Highway
Address Line 2	Minnampalli
City/Town	Salem
State	Tamil Nadu
Pin Code	636 106
Institution e-mail address	principal@mahendracollege.com
Contact Nos.	0427-2482884, 0427-2482886
Name of the Head of the Institution:	Dr. N. Malmurugan
Tel. No. with STD Code:	0427-2482884
Mobile:	9442294359
Name of the IQAC Co-ordinator:	Dr. S. Balamurugan
Mobile:	9994921548
IQAC e-mail address:	iqac@mahendracollege.com

1.3 NAAC Track ID (For ex. MHCOGN 18879)

TNCOGN24719

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC (SC)/11/A&A/32.1 dt. 19-1-2016

1.5 Website address:

www.mahendracollege.com

Web-link of the AQAR:

http://www.mahendracollege.com/iqac.php

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.71	2016	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

05/02/2016

1.8 AQAR for the year (for example 2010-11)

2016-2017

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 2015-16 available in www. mahendracollege.com from 15.04.2017

1.10 Institutional Status

University

State Central Deemed Private

Affiliated College

Yes No

Constituent College

Yes No

Autonomous college of UGC

Yes No

Regulatory Agency approved Institution (eg. AICTE, BCI, MCI, PCI, NCI) Yes No

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders: Total No. Faculty

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

1. Applied Sciences and Technologies.
2. Pedagogy.
3. Communication, Control, Signal & Image processing.
4. Human computer interfacing.
5. Internal Quality Assurance.

2.14 Significant Activities and contributions made by IQAC

- ✓ Updating college website.
- ✓ Auditing and improving of library facility and regular follow up.
- ✓ Follow up of Annual calendar.
- ✓ Follow up of teaching plan.
- ✓ Conduct of internal academic auditing.
- ✓ Standardisation of academic activities through standard procedures and formats.
- ✓ Organizing technical and motivational events.

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
<ul style="list-style-type: none"> • Standardisation of documents and procedures • Development of R&D activities by applying funding to various sponsoring organizations 	<ul style="list-style-type: none"> • Standard formats are made available in the campus for all academic and non academic activities • Funding received from CSIR, ICMR, etc., for organizing seminars, workshops, etc. • Applied for AICTE for funding under various schemes, such as RPS, MODROBS, Seminar grant, etc., and results are awaited.

* Attached Academic Calendar of the year as Annexure. I

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

- ❖ The IQAC meets once in four month and discusses various matters relating to curriculum changes and developments to the current needs.
- ❖ It reviews the progress made on the proposals made in the previous meetings.
- ❖ The outcomes are recorded for improving the quality assurance system.

Part – B

Criterion – I

I. 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	02	-	02	-
PG	07	-	07	-
UG	08	-	08	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	17	-	17	
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	15
Trimester	-
Annual	-

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

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

No. Only University can revise the syllabi

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

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
217	205	04	08	-

2.2 No. of permanent faculty with Ph.D.

15

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
30	-	-	-	-	-	-	-	30	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	-	-
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	39	43	4
Presented papers	51	10	7
Resource Persons	1	6	7

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

- Working models
- Electronic board teaching
- Knowledge Sharing Session
- Conduction of Value Added Courses
- Organizing Orientation Programme for Engineering Aspirants
- Smart Class Rooms
- Finishing School Programme
- Corporate Specific Programmes viz Infosys Campus Connect, WiproMission10X & NPTEL Online Courses, IIT Bombay-Spoken Tutorials, NIELIT

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

182

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

As per University norms

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

0	0	3
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2.10 Average percentage of attendance of students

91

2.11 Course/Programme wise
distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E-Electronics and Communication Engineering	71	-	81.7	8.4	-	90.1
B.E-Computer Science & Engineering	26	7.7	73.1	7.7	-	88.5
B.Tech-Information Technology	21	-	81.0	4.8	-	85.8
B.E-Electrical and Electronics Engineering	52	-	84.6	5.8	-	90.4
B.E-Mechanical Engineering	110	-	54.5	30.9	-	85.4
B.E-Civil Engineering	87	-	69.0	19.5	-	88.5
B.E-Mechatronics Engineering	18	-	61.11	-	-	61.11
M.E- Engineering Design	6	-	50	-	-	50
M.E.- Power Electronics and Drives	6	-	50	-	-	50
M.E.-Communication Systems	8	-	62.5	25	-	87.5
M.E.- Computer Science and Engineering	9	-	66.7	-	-	66.7
M.Tech.-Information Technology	-	-	-	-	-	-
MBA	-	-	-	-	-	-
MCA	-	-	-	-	-	-

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

- a) Conducting Academic Audit
- b) Conducting faculty development program to newly appointed faculty members.
- c) Awareness Programme for Blooms Taxonomy, CBCS, etc
- d) Organizing motivational programmes to students
- e) Monitor the conduct of Internal Assessment tests

- f) Monitor all curricular activities conducted by various Departments/Committees
- g) Conducting of Social Awareness Programme
- h) Feedback from all Stakeholders and taking necessary actions
- i) Organizing seminars, workshops and conferences
- j) Bridge Course for fresher

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	48
UGC – Faculty Improvement Programme	-
HRD programmes	1
Orientation programmes	102
Faculty exchange programme	3
Staff training conducted by the university	24
Staff training conducted by other institutions	9
Summer / Winter schools, Workshops, etc.	37
Others	2

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	12	-	-	-
Technical Staff	50	-	-	-

Criterion – III

3. Research, Consultancy and Extension

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

- Applying for University Recognized Research Centre.
- Incentive for faculty getting research grant.
- Funding for attending conferences and seminars.
- Motivating young faculty members to register for Ph.D.
- Purchasing exclusive equipments for doing research.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	-	-	11
Outlay in Rs. Lakhs	-	-	-	101

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	5	5	-	-
Outlay in Rs. Lakhs	0.85	0.442	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	73	25	-
Non-Peer Review Journals	16	10	-
e-Journals	2	5	-
Conference proceedings	31	56	-

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	2016-2017	Maha Ajay Spinning Mills, Salem.	8,500	8,500
		SIGI Automotive Private Limited, Chennai	16,500	16,500
		Livewire, Salem	75,000	75,000
		Manipal Hospital, Salem	15,000	15,000

		Anmol Company, Coimbatore	15,000	15,000
Interdisciplinary Projects		GA Software Solutions, Bangalore	2,00,000	2,00,000
Industry sponsored		Mahendra Next Wealth	30,000	30,000
Projects sponsored by the University/ College		-	-	-
Students research projects <i>(other than compulsory by the University)</i>		Sowdambigai Dyers	50000	50000
Any other(Specify)				
Total			4,10,000	4,10,000

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, receiving funds from

Autonomy CPE DBT Star Scheme
INSPIRE CE ICMR (specify)
CSIR

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	02	-	-	-
Sponsoring agencies	Management	Management	-	-	-

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

3.13 No. of collaborations 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	-
	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
16	4	2				10

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

7

26

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

2

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

- Road Safety awareness programme
- Blood Donation Camp
- Iskon Temple volunteer service
- Village Cleaning in Vellalakundam village.
- Helped orphanage people at Yercaud foothills , Salem
- Volunteers for International Chess Competition
- Trekking to Yercaud
- District Level Marathon
- Training for Police Personnel

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	26590 Sq. Mts		Management	26590 Sq. Mts
Class rooms	42	5	Management	47
Laboratories	53	4	Management	57
Seminar Halls	3	1	Management	4
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	5	-	Management	4
Value of the equipment purchased during the year (Rs. in Lakhs)	10	-	Management	-
Others	-	-	-	-

4.2 Computerization of administration and library

- ✓ Autolib with OPAC
- ✓ Bar coding facilities
- ✓ Digital Repository with Intranet
- ✓ ID Card Scanner
- ✓ Biometric for Library
- ✓ Centralized Admission System

4.3 Library services:

	Existing (2015-2016)		Newly added (2016-2017)		Total (2016-2017)	
	No.	Value (Rs.)	No.	Value (Rs.)	No.	Value (Rs.)
Text Books	23677	6796973	7535	2718387	31212	9515360
Reference Books	2455	1305325	740	367500	3195	1672825
e-Books	DELNET(Developing Library Network)					
Journals	470	823744	317	713300	787	1537044
e-Journals	DELNET(Developing Library Network)					
Digital Database	D SPACE					
CD & Video	1550	76057	750	37695	2300	113752
Others (specify)	ONLINE JOURNAL Elsevier online books Elsevier online journal back volumes Elsevier online journals					489874

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	642	Lab1-60 Lab2-38 Lab3-96 Lab4-60 Lab5-60 Lab6-66 Lab7-70 Lab8-50 ECE PG Lab-25 CSE PG Lab-25 Bio Medical Lab-5	All Systems		1 Exclusive Data Centre- 17 Servers, 20 Systems	15 PCs	14PCs	Library-20 Class room-9 Board room-1 Placemnt-3 Seminar hall-1 Auditorium-1 Hostel-2 Canteen -1
Added								
Total	642	555			20	15	14	38

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

- Internet facility is accessible to all students and faculty members.
- Real time projects through online
- Online Exams
- NPTEL online courses
- MOOCs

4.6 Amount spent on maintenance in lakhs :

i) ICT	1.0
ii) Campus Infrastructure and facilities	2.5
iii) Equipments	1.1
iv) Others	1.0
Total :	5.6

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- a) Conducting Academic Audit
- b) Conducting faculty development program to newly appointed faculty members.
- c) Awareness Programme for Blooms Taxonomy, CBCS, etc
- d) Organizing motivational programmes to students
- e) Monitor the conduct of Internal Assessment tests
- f) Monitor all curricular activities conducted by various Departments/Committees
- g) Conducting of Social Awareness Programme
- h) Feedback from all Stakeholders and taking necessary actions
- i) Organizing seminars, workshops and conferences
- j) Bridge Course for fresher

5.2 Efforts made by the institution for tracking the progression

- ✓ Effective Tutor Ward System
- ✓ Continuous Monitoring of Activities by the IQAC
- ✓ Feedback from stakeholders and action taken
- ✓ Sending periodical report to parents
- ✓ Bridge course for lateral entry students in mathematics.
- ✓ Remedial classes after the semester examination results and continual tests for weak students.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1769	80	11	

(b) No. of students outside the state

35

(c) No. of international students

0

Men	No	%	Women	No	%
	1280	69.2		569	30.8

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
33	604	47	1232	0	1916	20	634	41	1154	01	1850

Demand ratio : 62.8

Dropout % : 1

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

The College has procured various competitive examination materials and kept in the Library as hard and soft copies. Students are using such material for their preparation for competitive examinations.

The College supports students to prepare for competitive examinations and higher studies by offering training / orientation programs by providing books pertaining to GRE, CAT, GATE, TOFEL etc.

Intensive and periodic coaching in English language and Communication Skills

No. of students beneficiaries

100

5.5 No. of students qualified in these examinations

NET	<input type="text"/>	SET/SLET	<input type="text"/>	GATE	3	CAT	<input type="text"/>
IAS/IPS etc	<input type="text"/>	State PSC	<input type="text"/>	UPSC	<input type="text"/>	Others	<input type="text"/>

5.6 Details of student counselling and career guidance

<p>Counselling</p> <ul style="list-style-type: none"> ❖ The students are counselled for personal improvement, personal caring, absenteeism, poor performance, co curricular and extracurricular activities and in-disciplinary activities. <p>Career Guidance</p> <ul style="list-style-type: none"> ❖ Career guidance is provided to students on higher studies and placement. ❖ Campus to corporate programme ❖ Skill Development Programme ❖ Internship Programme ❖ Industry Projects ❖ Value Added Programmes
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No. of students benefitted

324

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
144	320	116	71

5.8 Details of gender sensitization programmes

<ul style="list-style-type: none"> ✓ International Women's Day ✓ Health Awareness Programme ✓ Technical motivational programmes ✓ Women's Literacy Awareness programme ✓ Personal Hygiene awareness programme
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5.9 Students Activities

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

State/ University level 5 National level - International level 1

No. of students participated in cultural events

State/ University level 6 National level - International level -

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

Sports : State/ University level 2 National level - International level -

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs.)
Financial support from institution	175	5624250
Financial support from government	1428	52632600
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: NIL

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

Mahendra College of Engineering is committed to be a leader in Higher Education, achieving excellence through world class learning environment for Science and Technology with a blend of advanced Research to create ethical and competent professionals.

MISSION

- To provide a conducive atmosphere to impart innovative knowledge and commendable skills through quality education by continuous improvement and customization of teaching.
- To nurture research attitude and bring out tangible developments with dynamic industry - Institute Interaction
- To create society oriented citizens with professional ethics.

6.2 Does the Institution has a management Information System

No

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

6.3.1 Curriculum Development

As an affiliated College, the Institution follows Anna University curriculum. The feedback collected from the alumni and parents are consolidated and discussed in the curriculum development committee meeting. Based on the recommendation of curriculum development committee, suggestions are submitted to affiliating university for considerations while revising the curriculum.

6.3.2 Teaching and Learning

- Industrial visits and Internships are arranged for the students to adopt the industrial environment
- Conducting Seminars /extension lecture by experts in their respective fields to share their knowledge with students
- Conducting tutorial classes.
- Conducting special coaching classes for slow learners.
- Conducting periodical assessment tests.
- Encouraging students to go for technical publications.
- Using modern gadgets in the class rooms and laboratories.
- Encouraging students to register for online NPTEL courses.

6.3.3 Examination and Evaluation

- An Examination cell is comprising of Principal as chairperson , Controller Of Examinations(COE) as member secretary and one faculty member from each department as Examination coordinator for the department
- Regular Assessment Tests are conducted.
- The answer scripts of such tests are shown to the students within three days and Marks are displayed in the notice board. If the students' performance is not satisfactory, information will be conveyed to the parents/guardian and solution for the best performance will be arrived.

6.3.4 Research and Development

- Encouraging the faculty members to register for Ph.D.
- Applying for various AICTE grants such as RPS, FDPs, MODROBS , seminar grant, etc.,
- Partnering with Indian and overseas educational institutions for improving the standards of education.
- Encouraging the faculty to participate in various technical programmes such as conferences, seminars and workshops at National and International level.
- Participation in various events being organized by professional bodies.
- Publishing articles in refereed journals and magazines with high impact factor.
- Offering consultancy services with available resources.
- Encouraging the students to submit their projects to TNSCST and other agencies including NGOs for obtaining research funds and grants.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- The library is fully computerized and contains necessary titles with sufficient volumes. All the books are bar-coded & barcode laser scanners are used in the issue counter for book transaction.
- Every class has one library hour per week to enable the students to access the reference books and journals which augments the learning process. Apart from the central library, every department has a library with adequate collection of text, reference books and journals.
- Every department has individual smart class room
- Wi-Fi campus.

6.3.6 Human Resource Management

Recruitment of qualified teaching and supporting staff as per the AICTE norms starts with newspaper advertisements. After receipt of Applications, they are scrutinized for the consistency of the academic career of the candidate. Shortlisted candidates are called for interview. The interview panel consists of external and internal experts as per AICTE and University norms.

The HR department conducts orientation programmes for newly recruited faculty members.

The existing faculty members are assessed through self-appraisal and students' feedback.

Faculty members who are having shortcomings are upgraded through the following activities

- Faculty Development Programme
- Pedagogy Sessions
- Skill Development Programmes through Wipro Mission10X, Infosys-Campus Connect, NPTEL Online Courses, IIT-Bombay Spoken Tutorials, etc.
- Qualification up-gradation.

Faculty members with good academic records are appreciated and rewarded. They are encouraged to participate in conferences, seminars and workshops, publish papers in peer reviewed journals and apply for the grants from the funding agencies.

6.3.7 Faculty and Staff recruitment

- ✓ The institution recruits the faculty members by issuing notification in leading daily newspapers and job portals. The selection process involves the following:
 - Written Test
 - Demo Lecture
 - Interview with the selection committee formed as per the guidelines of the AICTE.
- ✓ The non teaching staff members are recruited by notifying the vacancies in dailies and through personal interview.

6.3.8 Industry Interaction / Collaboration

- MoUs have been signed with the leading industries to enable the students to take up in-plant training, internships and placement.
- Inviting the experts from industries for guest lectures.
- Consultancy and testing activities.

6.3.9 Admission of Students

As an affiliated institution, admissions are carried out as per the norms of Anna University, Chennai.

6.4 Welfare schemes for

Teaching	Group Insurance, Transport facilities, Medical and Maternity Leave, Casual Leave, Compensation Leave, vacation Leave, Incentives for publications, consultancies and Faculty Retreat.
Non teaching	Group Insurance, Transport facilities, Medical and Maternity Leave, Casual Leave, Compensation Leave and vacation Leave.
Students	Free Scholarships for higher cut-off marks , Government Scholarships

6.5 Total corpus fund generated

-

6.6 Whether annual financial audit has been done

Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Mahendra Engineering College.	Yes	Academic Auditing is conducted by team of professors headed by senior Professor of the college
Administrative	No	No	No	No

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

For UG Programmes Yes No

For PG Programmes Yes No

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

Continuous improvements made by the University in Examination systems

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

- Day to Day activities are decided and carried out by the institution.
- Autonomy is given to the institution in students' placement, internships and trainings.

6.11 Activities and support from the Alumni Association

- Support from Alumni Association
- Conducting regular alumni meet.
 - Promoting personal and professional growth.
 - Promoting general welfare.
 - Promoting good fellowship and goodwill and conduct.
 - Promoting Industry Institute Interaction.
 - Acting as an ambassador for the students.
 - Helping economically weaker students through donations.
 - Providing counselling on recruitment process.

6.12 Activities and support from the Parent – Teacher Association

- Parents can meet the Principal, Dean, Heads of Department and faculty members for discussions on their wards' improvements. Further parents' may also be called by the department to discuss the progress of the individual student.
- Parents' / Guardians' feedback are documented for academic improvements.

6.13 Development programmes for support staff

- Training on equipment handling and maintenance.
- Training on preventive maintenance and breakdown maintenance.
- Training on First Aid and fire fighting equipments handling.
- Training on computer literacy.
- Special machine operations and automation.
- Training on self esteem building.
- Encouraging qualification up gradation.

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

- ISO 14001: 2015 for Continuous environment monitoring
- Installation of Solar Panel
- Rain Water Harvesting
- Tree Plantation

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.

- Tutor Ward Meeting in every week for all the classes
- Encouraging students to take up project work in emerging areas
- Permitting industrial visit, in-plant training, internships to reputed industries.

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

Plan of Action	Achievements
<ul style="list-style-type: none">• Standardisation of documents and procedures• Development of R&D activities by applying funding to various sponsoring organizations	<ul style="list-style-type: none">• Standard formats are made available in the campus for all academic and non academic activities• Funding received from CSIR, ICMR, etc., for organizing seminars, workshops, etc.• Applied for AICTE for funding under various schemes, such as RPS, MODROBS, Seminar grant, etc., and results are awaited.

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

Best Practice I
Title: Knowledge Sharing Forum
Best Practice II
Title: Students project in reputed industries.

Best Practice I

Title: Knowledge Sharing Forum

1. Goals:

- To keep the faculty community updated on current trends in the field of Engineering & Research.
- To facilitate knowledge transfer on other engineering branches of study.
- To increase the interaction level of the faculty of multiple-disciplines under a common forum.

2. Objective:

To enhance the presentation, teaching, learning and listening skills of the entire faculty team.

3. The Context

To increase the confidence level among the staff members to present their technical knowledge effectively in various forums at various levels.

4. The Practice

Staff members make technical presentations daily on the basis of pre planned schedule.

5. Evidence of success

- Confidence level of the staff members has improved.
- Improvement of cooperative environment among the faculty members.
- Has created a competitive environment among the staff to make better presentations.

6. Problems Encountered and Resources required.

Since it is done on daily basis time allocation to department developmental activities is less.

Best Practice II

Title: Students project in reputed industries

1. Goals:

- To keep the students updated on current trends in the field of Engineering & technology by facilitating them to do industry projects during their final semester of study.
- To increase the Industry, Institute interaction.
- To expose the students for the real industry environment.

2. Objective:

To enhance the technical knowledge of the students and to expose them to the latest problems/challenges faced by the industries and find the solution for the same.

3. The Context

Students are arranged with reputed companies of State, Central government and private sector companies to carry out the final year projects in their core areas.

4. The Practice

Students are utilising the opportunities provided to them and approach the reputed companies for their projects and carry out their projects and find solutions to the real world problems. Both students and companies/organizations get benefit out of this exercise.

5. Evidence of success

- Many successful projects have come out in all the departments.
- Students are ready for the challenging jobs after having exposed to the real time scenario.

6. Problems Encountered and Resources required.

Some Industries/companies are reluctant to permit the students. Since this practice is more useful for both students and companies, more industries/ organisations should come forward for this practice.

7.4 Contribution to environmental awareness / protection

- ISO 14001: 2015 for Continuous environment monitoring
- Installation of Solar Panel
- Rain Water Harvesting
- Tree Plantation

7.5 Whether environmental audit was conducted? Yes No

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

STRENGTHS

- ✓ Highly reputed College with the State of art Infrastructure
- ✓ Well Experienced Faculty.
- ✓ Good placement record.
- ✓ Pollution free learning environment - modern day Engineering and Technology
- ✓ Supportive & Cooperative management
- ✓ The college is well connected by road transport as it is located on Salem-Chennai highway.
- ✓ Well-equipped Library
- ✓ Mentorship practice has yielded good results in improvement of students overall development.
- ✓ Existence of Infosys Campus Connect, Wipro and IIT Bombay resource center, Visual Lab etc
- ✓ High-profiled and sophisticated communication lab, NPTEL, intranet connection to the faculty and students.
- ✓ Well equipped Gymnasium and indoor games facility.
- ✓ The Institute is placed in 28th position in overall Ranking of Top Engineering Colleges in India
- ✓ The Institute is placed in 15th position in Top 15 Engineering Colleges Ranked by state

WEAKNESSES

- ✓ Rural background students with moderate cut off marks.
- ✓ Lack of patents, advanced research, socio-economic activities in thrust areas.

OPPORTUNITIES

- ✓ Starting additional PG Courses and Ph.D Programmes
- ✓ Offering skill based training programmes for local community
- ✓ To obtain Autonomous status
- ✓ To Provide tailor made continuing education programmes
- ✓ To generate revenues through sponsored research and consultancy

CHALLENGES

- ✓ Mushrooming growth of Engineering colleges in the state increases competition in attracting good faculty and students.
- ✓ Rural students with poor communication skills are major constraint for getting placements.
- ✓ Industrial recession and fluctuating demand and placement opportunities.

8. Plans of institution for next year

1. To apply for the research recognition centre from Anna university Mechanical and Information technology departments.
2. To publish more technical books and also journals in various engineering domains
3. To motivate the faculty members and students to register for NPTEL online courses
4. Guest house facility to be created
5. To apply for NBA for Mech, CSE and ECE departments

Name **Dr. S. Balamurugan**

Name **Dr. N. Malmurugan**

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____*_____

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing

- SLET - State Level Eligibility Test
- TEI - Teacher Education Institution
- UPE - University with Potential Excellence
- UPSC - Union Public Service Commission

Academic Calender

Academic Year 2016- 17 Odd semester

MAHENDRA COLLEGE OF ENGINEERING , SALEM-636 106					
Academic Schedule 2016-17 (ODD SEMESTERS-III, V & VII)					
Commencement of Classes : 04.07.2016					
Jun-16			Jul-16		
Date	Day	Particulars	Date	Day	Particulars
1/6/2016	Wed	Workshop on Bliss's Taxonomy	1/7/2016	Fri	
2/6/2016	Thu		2/7/2016	Sat	
3/6/2016	Fri		3/7/2016	Sun	Holiday
4/6/2016	Sat		4/7/2016	Mon	Commencement of Classes
5/6/2016	Sun	Holiday	5/7/2016	Tue	
6/6/2016	Mon		6/7/2016	Wed	
7/6/2016	Tue		7/7/2016	Thu	RAHZAN
8/6/2016	Wed		8/7/2016	Fri	
9/6/2016	Thu		9/7/2016	Sat	
10/6/2016	Fri		10/7/2016	Sun	Holiday
11/6/2016	Sat		11/7/2016	Mon	
12/6/2016	Sun	Holiday	12/7/2016	Tue	
13/6/2016	Mon		13/07/2016	Wed	
14/06/2016	Tue		14/07/2016	Thu	
15/06/2016	Wed		15/07/2016	Fri	
16/06/2016	Thu		16/07/2016	Sat	
17/06/2016	Fri	Workshop on Academic Planning for Academic year	17/07/2016	Sun	Holiday
18/06/2016	Sat		18/07/2016	Mon	CLASS COMMITTEE MEETING
19/06/2016	Sun	Holiday	19/07/2016	Tue	CLASS COMMITTEE MEETING
20/06/2016	Mon		20/07/2016	Wed	CLASS COMMITTEE MEETING
21/06/2016	Tue		21/07/2016	Thu	
22/06/2016	Wed	Orientation program for	22/07/2016	Fri	Partials Completion - Unit
23/06/2016	Thu		23/07/2016	Sat	
24/06/2016	Fri		24/07/2016	Sun	Holiday
25/06/2016	Sat		25/07/2016	Mon	
26/06/2016	Sun	Holiday	26/07/2016	Tue	
27/06/2016	Mon		27/07/2016	Wed	
28/06/2016	Tue		28/07/2016	Thu	
29/06/2016	Wed		29/07/2016	Fri	
30/06/2016	Thu		30/07/2016	Sat	
			31/07/2016	Sun	Holiday

Aug-16			Sep-16		
Date	Day	Particulars	Date	Day	Particulars
1/8/2016	Mon		1/9/2016	Thu	
2/8/2016	Tue		2/9/2016	Fri	Artina Completion - Unit I
3/8/2016	Wed		3/9/2016	Sat	
4/8/2016	Thu		4/9/2016	Sun	Holiday
5/8/2016	Fri		5/9/2016	Mon	TINAYAGAR CHATHURTHI
6/8/2016	Sat		6/9/2016	Tue	
7/8/2016	Sun	Holiday	7/9/2016	Wed	
8/8/2016	Mon		8/9/2016	Thu	
9/8/2016	Tue		9/9/2016	Fri	
10/8/2016	Wed		10/9/2016	Sat	
11/8/2016	Thu	Artina Completion - Unit I	11/9/2016	Sun	Holiday
12/8/2016	Fri		12/9/2016	Mon	
13/08/2016	Sat		13/9/2016	Tue	BAKRITH
14/08/2016	Sun	Holiday	14/9/2016	Wed	
15/08/2016	Mon	INDEPENDENCE DAY	15/9/2016	Thu	
16/08/2016	Tue		16/9/2016	Fri	
17/08/2016	Wed		17/9/2016	Sat	
18/08/2016	Thu		18/9/2016	Sun	Holiday
19/08/2016	Fri		19/9/2016	Mon	
20/08/2016	Sat		20/9/2016	Tue	
21/08/2016	Sun	Holiday	21/9/2016	Wed	
22/08/2016	Mon		22/9/2016	Thu	
23/08/2016	Tue		23/9/2016	Fri	Artina Completion - Unit I
24/08/2016	Wed		24/9/2016	Sat	
25/08/2016	Thu	KRISHNA JAYANTHI	25/9/2016	Sun	Holiday
26/08/2016	Fri		26/9/2016	Mon	
27/08/2016	Sat		27/9/2016	Tue	
28/08/2016	Sun	Holiday	28/9/2016	Wed	
29/08/2016	Mon	CLASS COMMITTEE MEETING	29/9/2016	Thu	
30/08/2016	Tue	CLASS COMMITTEE MEETING	30/9/2016	Fri	
31/08/2016	Wed	CLASS COMMITTEE MEETING			

Oct-16			Nov-16		
Date	Day	Particulars	Date	Day	Particulars
1/10/2016	Sat		1/11/2016	Tue	
2/10/2016	Sun	Holiday	2/11/2016	Wed	
3/10/2016	Mon	ASS COMMITTEE MEETI	3/11/2016	Thu	
4/10/2016	Tue	ASS COMMITTEE MEETI	4/11/2016	Fri	
5/10/2016	Wed	ASS COMMITTEE MEETI	5/11/2016	Sat	
6/10/2016	Thu		6/11/2016	Sun	Holiday
7/10/2016	Fri		7/11/2016	Mon	
8/10/2016	Sat		8/11/2016	Tue	
9/10/2016	Sun	Holiday	9/11/2016	Wed	
*****	Mon	ATUTHA POOJA	*****	Thu	
*****	Tue	TIJATA DHASAMI	*****	Fri	
*****	Wed	MUHARRAM	*****	Sat	
13/10/2016	Thu		13/11/2016	Sun	Holiday
14/10/2016	Fri	rtina Completion - Un	14/11/2016	Mon	
15/10/2016	Sat		15/11/2016	Tue	
16/10/2016	Sun	Holiday	16/11/2016	Wed	
17/10/2016	Mon		17/11/2016	Thu	
18/10/2016	Tue		18/11/2016	Fri	
19/10/2016	Wed		19/11/2016	Sat	
20/10/2016	Thu		20/11/2016	Sun	Holiday
21/10/2016	Fri		21/11/2016	Mon	
22/10/2016	Sat		22/11/2016	Tue	
23/10/2016	Sun	Holiday	23/11/2016	Wed	
24/10/2016	Mon		24/11/2016	Thu	
25/10/2016	Tue		25/11/2016	Fri	
26/10/2016	Wed		26/11/2016	Sat	
27/10/2016	Thu		27/11/2016	Sun	Holiday
28/10/2016	Fri		28/11/2016	Mon	
29/10/2016	Sat	(Deepavali) Holiday	29/11/2016	Tue	
30/10/2016	Sun	Holiday	30/11/2016	Wed	
31/10/2016	mon				

Dec-16		
Date	Day	Particulars
1/12/2016	Thu	
2/12/2016	Fri	
3/12/2016	Sat	
4/12/2016	Sun	Holiday
5/12/2016	Mon	
6/12/2016	Tue	
7/12/2016	Wed	
8/12/2016	Thu	
9/12/2016	Fri	
10/12/2016	Sat	
11/12/2016	Sun	Holiday
12/12/2016	Mon	Hiladi Nabi
13/12/2016	Tue	
14/12/2016	Wed	
15/12/2016	Thu	
16/12/2016	Fri	
17/12/2016	Sat	
18/12/2016	Sun	Holiday
19/12/2016	Mon	
20/12/2016	Tue	
21/12/2016	Wed	
22/12/2016	Thu	
23/12/2016	Fri	
24/12/2016	Sat	
25/12/2016	Sun	Holiday
26/12/2016	Mon	
27/12/2016	Tue	
28/12/2016	Wed	
29/12/2016	Thu	
30/12/2016	Fri	

Academic Year 2016- 17 Even semester

MAHENDRA COLLEGE OF ENGINEERING , SALEM-636 106					
Academic Schedule 2016-17 (EVEN SEMESTERS-IV,VI,VIII)					
Commencement of Classes : 26.12.2016					
Dec-16			Jan-17		
Date	Day	Particulars	Date	Day	Particulars
1/12/2016	Thu		1/1/2017	Sun	Holiday-New Year 2017
2/12/2016	Fri		2/1/2017	Mon	
3/12/2016	Sat		3/1/2017	Tue	
4/12/2016	Sun	Holiday	4/1/2017	Wed	Commencement of classes for 1 year
5/12/2016	Mon		5/1/2017	Thu	
6/12/2016	Tue		6/1/2017	Fri	Completion of Unit-I
7/12/2016	Wed		7/1/2017	Sat	Holiday
8/12/2016	Thu		8/1/2017	Sun	Holiday
9/12/2016	Fri		9/1/2017	Mon	Internal Test -I for IV Tr
10/12/2016	Sat		10/1/2017	Tue	Internal Test -I for IV Tr
11/12/2016	Sun	Holiday	11/1/2017	Wed	Internal Test -I for IV Tr
12/12/2016	Mon	Miladi Nabi	12/1/2017	Thu	Internal Test -I for IV Tr
13/12/2016	Tue		13/1/2017	Fri	
14/12/2016	Wed		14/1/2017	Sat	Pongal
15/12/2016	Thu		15/1/2017	Sun	Thiruvalluvar Day
16/12/2016	Fri		16/1/2017	Mon	Uthavar Tirunal
17/12/2016	Sat		17/1/2017	Tue	
18/12/2016	Sun	Holiday	18/1/2017	Wed	Zerath Review VIII Sem 2 Internal Test -I for III & II Tr
19/12/2016	Mon		19/1/2017	Thu	Internal Test -I for III & II Tr
20/12/2016	Tue		20/1/2017	Fri	Internal Test -I for III & II Tr
21/12/2016	Wed		21/1/2017	Sat	Holiday
22/12/2016	Thu		22/1/2017	Sun	Holiday
23/12/2016	Fri		23/1/2017	Mon	Internal Test -I for III & II Tr
24/12/2016	Sat	Holiday	24/1/2017	Tue	Internal Test -I for III & II Tr
25/12/2016	Sun	Holiday	25/1/2017	Wed	Internal Test -I for III & II Tr Tr-I Completion of Unit-II
26/12/2016	Mon	Commencement of classes for IV,III, II	26/1/2017	Thu	Republic Day
27/12/2016	Tue		27/1/2017	Fri	Internal Test -II for IV Tr
28/12/2016	Wed		28/1/2017	Sat	Holiday
29/12/2016	Thu		29/1/2017	Sun	Holiday
30/12/2016	Fri		30/1/2017	Mon	Internal Test -II for IV Tr
31/12/2016	Sat	Holiday	31/1/2017	Tue	Internal Test -II for IV Tr

Feb-17			Mar-17		
Date	Day	Particulars	Date	Day	Particulars
1/2/2017	Wed	Internal Test -II for IV Tr	1/3/2017	Wed	Internal Test -III for III & II Tr
2/2/2017	Thu		2/3/2017	Thu	Internal Test -III for III & II Tr
3/2/2017	Fri		3/3/2017	Fri	Internal Test -III for III & II Tr
4/2/2017	Sat	Holiday	4/3/2017	Sat	Holiday
5/2/2017	Sun	Holiday	5/3/2017	Sun	Holiday
6/2/2017	Mon		6/3/2017	Mon	Internal Test -III for III & II Tr
7/2/2017	Tue	Internal Test -III for IV Tr	7/3/2017	Tue	Internal Test -III for III & II Tr
8/2/2017	Wed	Internal Test -III for IV Tr	8/3/2017	Wed	Internal Test -III for III & II Tr
9/2/2017	Thu	Internal Test -III for IV Tr / Completion of	9/3/2017	Thu	Completion of Unit-V
10/2/2017	Fri	Internal Test -III for IV Tr	10/3/2017	Fri	
11/2/2017	Sat	Holiday	11/3/2017	Sat	
12/2/2017	Sun	Holiday	12/3/2017	Sun	Holiday
13/2/2017	Mon	Internal Test -II for III & II	13/3/2017	Mon	Commencement of MODEL EXAM -I
14/2/2017	Tue	Internal Test -II for III & II	14/3/2017	Tue	
15/2/2017	Wed	Internal Test -II for III & II	15/3/2017	Wed	
16/2/2017	Thu	Internal Test -II for III & II	16/3/2017	Thu	
17/2/2017	Fri	Internal Test -II for III & II	17/3/2017	Fri	
18/2/2017	Sat	Holiday	18/3/2017	Sat	
19/2/2017	Sun	Holiday	19/3/2017	Sun	Holiday
20/2/2017	Mon	Internal Test -II for III & II	20/3/2017	Mon	
21/2/2017	Tue		21/3/2017	Tue	Commencement of MODEL EXAM -II
22/2/2017	Wed		22/3/2017	Wed	
23/2/2017	Thu	Completion of Unit-IV	23/3/2017	Thu	
24/2/2017	Fri		24/3/2017	Fri	
25/2/2017	Sat	Holiday	25/3/2017	Sat	
26/2/2017	Sun	Holiday	26/3/2017	Sun	Holiday
27/2/2017	Mon		27/3/2017	Mon	
28/2/2017	Tue		28/3/2017	Tue	Telugu New Year
			29/3/2017	Wed	
			30/3/2017	Thu	
			31/3/2017	Fri	

Apr-17			May-17		
Date	Day	Particulars	Date	Day	Particulars
1/4/2017	Sat		1/5/2017	Mon	May Day
2/4/2017	Sun	Holiday	2/5/2017	Tue	
3/4/2017	Mon		3/5/2017	Wed	
4/4/2017	Tue		4/5/2017	Thu	
5/4/2017	Wed		5/5/2017	Fri	
6/4/2017	Thu		6/5/2017	Sat	
7/4/2017	Fri		7/5/2017	Sun	Holiday
8/4/2017	Sat		8/5/2017	Mon	
9/4/2017	Sun	Holiday- Mahavir Jayant	9/5/2017	Tue	
10/4/2017	Mon		10/5/2017	Wed	
11/4/2017	Tue		11/5/2017	Thu	
12/4/2017	Wed		12/5/2017	Fri	
13/4/2017	Thu		13/5/2017	Sat	
14/4/2017	Fri	Good Friday(Tamil New Year)	14/5/2017	Sun	Holiday
15/4/2017	Sat		15/5/2017	Mon	
16/4/2017	Sun	Holiday	16/5/2017	Tue	
17/4/2017	Mon		17/5/2017	Wed	
18/4/2017	Tue		18/5/2017	Thu	
19/4/2017	Wed		19/5/2017	Fri	
20/4/2017	Thu		20/5/2017	Sat	
21/4/2017	Fri		21/5/2017	Sun	Holiday
22/4/2017	Sat		22/5/2017	Mon	
23/4/2017	Sun	Holiday	23/5/2017	Tue	
24/4/2017	Mon		24/5/2017	Wed	
25/4/2017	Tue		25/5/2017	Thu	
26/4/2017	Wed		26/5/2017	Fri	
27/4/2017	Thu	International Conference	27/5/2017	Sat	
28/4/2017	Fri	International Conference	28/5/2017	Sun	Holiday
29/4/2017	Sat		29/5/2017	Mon	
30/4/2017	Sun	Holiday	30/5/2017	Tue	
			31/5/2017	Wed	