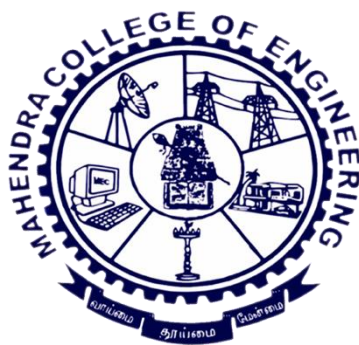# Annual Quality Assurance Report (AQAR)

2015-2016

of the Internal Quality Assurance Cell (IQAC)

Mahendra College of Engineering, Salem-636 106

Salem- Chennai HighWay
Minnampalli, Salem.

The Annual Quality Assurance Report (AQAR) of the IQAC
(2015-2016)

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

1. 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

> Tamilnadu

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.R.Asokan

Tel. No. with STD Code:

> 0427-2482884

Mobile:

> 9443711309

Name of the IQAC Co-ordinator   :   Mr.V.Ponniyinselvan

Mobile   :   9789464214

IQAC e-mail address: iqac@mahendracollege.com

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*   TNCOGN24719

1.4 **NAAC Executive Committee No. & Date:**   EC (SC)/11/A&A/32.1 dt. 19-1-2016
   (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)

1.5 Website address: www.mahendracollege.com

Web-link of the AQAR: http://www.mahendracollege.com/iqac.php

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	1st Cycle	B		2016	5 YEARS
2	2nd Cycle	-	-	-	-
3	3rd Cycle	-	-	-	-
4	4th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC :   DD/MM/YYYY   05/02/2016

1.8 AQAR for the year *(for example 2010-11)*   2015-2016

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

Nil

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   Yes ☑   No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

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)   .   MCA

1.12 Name of the Affiliating University *(for the Colleges)*   Anna University, Chennai

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	10

2.2 No. of Administrative/Technical staff | 01 |

2.3 No. of students | Nil |

2.4 No. of Management representatives | 01 |

2.5 No. of Alumni | 01 |

2. 6 No. of any other stakeholder and

   community representatives | - |

2.7 No. of Employers/ Industrialists | 02 |

2.8 No. of other External Experts | - |

2.9 Total No. of members | 15 |

2.10 No. of IQAC meetings held | 02 |

2.11 No. of meetings with various stakeholders: 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 | 01 |

(ii) Themes	1. SMART board Operations 2. Best Practices for Quality Enhancement in the academic institution 3. Students' participation in quality improvement

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

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
➢ Remedial coaching classes ➢ Upgrade teachers knowledge based in advanced Research	Several students were benefited Research publications have been increased.

Attach the Academic Calendar of the year as Annexure.

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

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	-	02	-	-
PG	07	-	07	-
UG	08	-	08	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	15	02	15	

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) [ ]

*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. 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
176	156	05	15	

2.2 No. of permanent faculty with Ph.D.

20

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
19	-	1	-	-	-	-	-	20	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

-		-		-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	13	48	-
Presented papers	-	32	-
Resource Persons	-	17	-

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

- Knowledge Sharing Forum
- Student Feedback
- Model Question

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

180

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

2.10 Average percentage of attendance of students

95

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	66	13.6	75.8	-	-	89.4
B.E-Computer Science & Engineering	46	10.8	82.6	-	-	93.4
B.Tech-Information Technology	18	61.1	22.2	-	-	83.3
B.E-Electrical and Electronics Engineering	30	-	66.6	26.7	-	93.3
B.E-Mechanical Engineering	63	-	63.5	14.3	-	77.8
B.E-Civil Engineering	24	-	70.8	8.3	-	79.1
B.E–Mechtronics Engineering	-	-	-	-	-	-
MBA	12	-	83.33	-	-	83.33
MCA	25	-	100	-	-	100

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

     a) Academic Audit of the Departments

     b) Conducting faculty development program to newly appointed faculty members.

     c) Review of the Self-Appraisal submitted by Faculty / Non-Teaching Staff Members

     d) Monitor the conduct of Internal Assessment tests

     e) Monitor all curricular activities conducted by various Departments/Committees

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	52
UGC – Faculty Improvement Programme	-
HRD programmes	-
Orientation programmes	26
Faculty exchange programme	-
Staff training conducted by the university	65

Staff training conducted by other institutions	55
Summer / Winter schools, Workshops, etc.	58
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	10	-	-	-
Technical Staff	47	-	-	-

Criterion – III

3. Research, Consultancy and Extension

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

> ➢ Identifying areas for research.
>
> ➢ Attending workshop related to research.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	07			07
Outlay in Rs. Lakhs	1,10,000			1,10,000

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

3.4   Details on research publications

	International	National	Others
Peer Review Journals	-		
Non-Peer Review Journals	76	22	
e-Journals			
Conference proceedings			

3.5 Details on Impact factor of publications:

Range 01-3   Average 2.2   h-index [ ]   Nos. in SCOPUS 3

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	2014-2015	KNK Nexgen Construction Pvt. Ltd, Bangalore	38,000	38,000
		Caliber Technologies, Salem	15,000	15,000
		G. D. Electrical Equipments, Coimbatore	20,000	20,000

		Enspilog Software Solutions	9,000.00	9,000.00
		Enspilog Software Solutions	9,500.00	9,500.00
		Enspilog Software Solutions	9,000.00	9,000.00
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects *(other than compulsory by the University)*				
Any other(Specify)				
Total				

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

ii) Without ISBN No. | 4 |

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 | 6,10,800 |

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number		4			
Sponsoring agencies		Self			

3.12 No. of faculty served as experts, chairpersons or resource persons | 2 |

3.13 No. of collaborations   International | - | National | - | Any other | - |

3.14 No. of linkages created during this year | 3 |

3.15 Total budget for research for current year in lakhs :

From Funding agency | - | From Management of University/College | 500000 |

Total | 500000 |

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
2	2					

3.18 No. of faculty from the Institution
who are Ph. D. Guides | 3 |
and students registered under them | 16 |

3.19 No. of Ph.D. awarded by faculty from the Institution | 0 |

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 | 20 | 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
- ➢ Tree plantation
- ➢ Village Cleaning in Vellalakundam village.

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	41	3	Management	44
Laboratories	23	1	Management	24
Seminar Halls	2	1	Management	3
No. of important equipments purchased (≥ 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

Use of OPAC software in library

4.3 Library services:

	Existing (2014-2015)		Newly added (2014-2015)		Total (2014-2015)	
	No.	Value	No.	Value	No.	Value
Text Books	18377	4991673	5300	1805300	23677	6796973
Reference Books	1925	1060325	530	245000	2455	1305325
e-Books	DELNET(Developing Library Network)					
Journals	320	476244	150	347500	470	823744
e-Journals	DELNET(Developing Library Network)					
Digital Database	D SPACE					
CD & Video	1250	60822	300	15235	1550	76057
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	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 Placement-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 up gradation (Networking, e-Governance etc.)

- A training programme on Fundamental of PCB

- Internet facility is afforded to all students and faculty members

4.6 Amount spent on maintenance in lakhs :

 i) ICT

 ii) Campus Infrastructure and facilities

 iii) Equipments   13.0

 iv) Others   1.0

Total : 14.0

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Skill development (Spoken English, Computer literacy, etc.)

- Support for "slow learners"

5.2 Efforts made by the institution for tracking the progression

- Feedback from students, faculty and alumni of the Institution.

- Regular meetings/monitoring

- Regular feedback from students

- Bridge course for lateral entry students in mathematics.

- Remedial classes after the first semester and continual tests for weak students.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
447	9	--	--

(b) No. of students outside the state   -

(c) No. of international students   -

Men
No	%
314	68.9

Women
No	%
142	31.14

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
10	75	9	319	-	413	3	111	9	333	-	456

Demand ratio 0.379   Dropout 0.511%

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

The College has procured various competitive examination material 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   70

5.5 No. of students qualified in these examinations

NET   -   SET/SLET   -   GATE   1   CAT   -

IAS/IPS etc   -   State PSC   -   UPSC   -   Others   15

5.6 Details of student counselling and career guidance

Counselling

❖ The students are counselled for absenteeism, poor performance and in disciplinary activities.

Career Guidance

❖ Career guidance is provided to students on higher studies and placement

No. of students benefitted   20

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
78	120	36	54

5.8 Details of gender sensitization programmes

- Women empowerment cell is Established

- Women' s day is celebrated in the campus

- Professional counsellors are invited to conduct programmes for women staff and students

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
Financial support from institution	755	3509805
Financial support from government	293	19053000
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 | 3 |

5.13 Major grievances of students (if any) redressed: _____

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 in excellence with world class learning environment for Science and Technology with blend of Research to create competent and ethical professionals.

MISSION

➢ To provide a conducive atmosphere to impart innovation, knowledge and appropriate skills by delivering quality education through continuous improvement and customization of teaching

➢ To nurture research attitude and bring measurable developments with dynamic industry - Institute Interaction

➢ To create social inclined citizens with professional ethics

6.2 Does the Institution has a management Information System

Nil

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 trainings 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

- Arranging tutorial classes
- Conducting special coaching classes for slow learners.
- Conducting additional tests for poor performers

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 internal 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 as part of their continuing education.
- Applying AICTE for various grand such as RPS, FDPs, seminar grant etc to upgrade their research activities.
- To partner with Indian and overseas education institutions for improving the standards of education.
- To attend various training workshops and programs at National and International level.
- To develop the local community/village people through various R&D activities.
- To actively participate in different professional bodies.
- To publish articles in refereed journals and magazines with high impact factor.
- To offer consultancy services with available resources.
- The institution encourages the students to submit their projects to TNSCST and other agencies including NGOs for obtaining research funds and grants. They are advised to partner with the faculty in publishing technical articles and to take up collaborative projects.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- **Library:** The library is fully computerized and covers almost all the titles. All the books are bar-coded & barcode laser scanners are used in the issue counter for book transaction.

Every class has one compulsory library hour per week to permit 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 and reference books and journals.

- Every department has individual smart class room

.• Wi-Fi campus.

6.3.6 Human Resource Management

- The management recruits adequate number of qualified teaching and supporting staff as per AICTE norms through open advertisement. The information is also made available in college website. Based on the strengths and weaknesses of the teaching, learning process and the outcomes of teaching, the faculty members will be trained through the following stages.
- In the first phase, the faculty member will be asked to prepare self-appraisal form. It will have the following information about the faculty member
  - Participation of faculty members in various activities
  - Publication
  - Program organized
  - Qualification up gradation, etc.

- In the second phase, Head of the Department checks the appraisal form.
- At the final phase of appraisal, Head of the Institution assesses the quality of the faculty.
- The self-assessment report is one of the important yard stick used for the promotion of the faculty. It also gives a clear picture about the areas that need to be improved. The faculty development cell conducts orientation programmes for the newly recruited faculties. Faculty members are encouraged to participate in conferences, seminars and workshops.

6.3.7 Faculty and Staff recruitment

- ✓ The institution recruits the faculty members by issuing a notification in leading daily news paper. The selection process involves the following:

  - Conducting 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 the institution by notifying the vacancies in dailies followed by an interview

6.3.8 Industry Interaction / Collaboration

MOUs have been signed with the leading concerns to enhance the campus recruitment and project training for the student community.

6.3.9 Admission of Students

As an affiliated college, admissions are held on the basis of rules and norms of the Anna University, Chennai.

6.4 Welfare schemes for

Teaching	Group Insurance ,Transport facilities, Medical and Maternity Leave, Casual Leave
Non teaching	Group Insurance ,Transport facilities, Medical and Maternity Leave, Casual 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	No		Yes	Academic Auditing is conducted by team of professors headed by senior Professor of the college
Administrative	No		No	-

6.8 Does the University/ Autonomous College declares 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?

Publication of Semester Examination results through online

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

The University nominates members for Board of Studies, Academic Council, Governing Body and Result Passing Board.

6.11 Activities and support from the Alumni Association

- Alumni meet are conducted every year
- The alumnus helps in bringing industries and companies for campus placements and provides employment opportunities to the students.

6.12 Activities and support from the Parent – Teacher Association

- There is no Parent – Teacher Association. But parents can meet the Principal, Dean, Head of the department and faculty members for their requirements. Further parents may also be called by the department to discuss the progress of the individual student.
- Parents / Guardians Inputs are recorded for improvisation.

6.13 Development programmes for support staff

Technical staffs are encouraged to go for higher studies and certification courses.

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

- Energy Conservation
- Use of Renewable energy
- Water Harvesting
- Tree Plantation
- Disposal of garbage

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.

- Add-on courses for skill development were conducted.
- Extra classes were conducted for students to appear in competitive exams
- Remedial coaching classes for weak students
- Students of each department have gone for industrial visit and interacted with industries and undergone inplant training. So they can get practical knowledge about their subjects.

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

- ✓ More numbers of clubs have been added to improve team work, leadership, attitude, societal involvement of the students & faculty members. To name some of the clubs are 1. Go green club 2. Cultural club 3. Magazine club 4. Publishing club.
- ✓ IQAC planned the objectives for academic year (2016-17) and its progress will be monitored through action taken report from all concerned persons. In its meeting these action taken reports will be discussed and corrections if any will be carried out whenever it is required.

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

Best Practice –I Industrial consultancy at free of cost with PG Scholars

1.Goals:

➢ To make students involved in real time industrial sector with live on-going projects

➢ To provide a dynamic exposure to the students about the industrial environment

➢ Providing career guidance on opportunities related to corporate sector and core industry via this exposure

2. The Context:

Facilitating the industry exposure for the students which will inculcate practical learning and hands on training experience to the them.

3. The Practice:

Live exposure about industries are given, which helps in up-gradation of the skills of staff and students. It promotes the learning environment of the students.

4. Evidence of success:

The list of industrial consultancy and their corresponding MOUs are maintained in corresponding departments. Also department maintains the list of students and faculties involved in this training programs. Good percentage of the students are made industry ready and got placement.

5. Problems encountered and resources required:

Time constraints for the students and staff because of the busy academic schedule. Being a self financing institution support to purchase of extensive research equipment and software seems to be little tough for the institution.

Best Practice II

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 planed 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.

7.4 Contribution to environmental awareness / protection

- Tree plantation inside & outside campus areas
- Rain water harvesting
- Water Treatment Plant

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. Mahendra College of Engineering should be in the list of colleges under 12(B) status offered by UGC before the academic year 2016-17.
2. Established two Research Centres by the academic year 2015-16 and planning to establish two more Research Centres by 2016-17.
3. To achieve the "Autonomous status" for the College by the academic year 2016-17
4. To get the AICTE approval for Foreign Nationals Persons of Indian Origin to admit the students from other Countries.
5. To establish "Technology Incubator" facility to promote start-up units by 2017
6. To release a "Technical Journal "as per International standards by 2017
7. To promote community education and community services for two villages surrounded the College by 2017

Name : **Mr.V.Ponniyinselvan**   *Name:* **Dr.R.Asokan**

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

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Annexure I

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

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