



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	MAHENDRA ENGINEERING COLLEGE (AUTONOMOUS)
Name of the head of the Institution	Dr.R.V.Mahendra Gowda
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04288288610
Mobile no.	6382083091
Registered Email	principal@mahendra.info
Alternate Email	hodaero@mahendra.info
Address	Mahendra Engineering College (Autonomous), Mahendrapuri, Mallasamudram, Tiruchengode
City/Town	Namakkal
State/UT	Tamil Nadu

Pincode	637503																						
2. Institutional Status																							
Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Jan-2013																						
Type of Institution	Co-education																						
Location	Rural																						
Financial Status	private																						
Name of the IQAC co-ordinator/Director	Dr.C.T.Sivakumar																						
Phone no/Alternate Phone no.	04288288599																						
Mobile no.	9442130662																						
Registered Email	sivakumar@mahendra.org																						
Alternate Email	hodcivil@mahendra.info																						
3. Website Address																							
Web-link of the AQAR: (Previous Academic Year)	http://mahendra.info/igac.php																						
4. Whether Academic Calendar prepared during the year	Yes																						
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.mahendra.info/academic_calendar.php																						
5. Accrediation Details																							
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>306</td> <td>2014</td> <td>10-Jul-2014</td> <td>10-Jul-2020</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	306	2014	10-Jul-2014	10-Jul-2020				
Cycle	Grade	CGPA	Year of Accrediation	Validity																			
				Period From	Period To																		
1	A	306	2014	10-Jul-2014	10-Jul-2020																		
6. Date of Establishment of IQAC	01-Nov-2012																						
7. Internal Quality Assurance System																							
<table border="1"> <thead> <tr> <th colspan="6">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by</th> <th>Date & Duration</th> <th colspan="4">Number of participants/ beneficiaries</th> </tr> </thead> <tbody> <tr> <td colspan="6"> </td> </tr> </tbody> </table>						Quality initiatives by IQAC during the year for promoting quality culture						Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries									
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IQAC		
Awareness on Academic and Innovation Excellence	28-Sep-2019 1	4
Agri Expo -CII	22-Jun-2019 2	125
IQAC auditing	08-Jun-2019 2	200
CII YI awareness on Organ donar	07-Aug-2019 1	85
Blood Donation camp	01-Oct-2019 1	157
Mahendra Foundation for Innovative Research in Science and Technology	09-Oct-2019 1	650
Faculty Enrichment Programme Series	19-Oct-2019 7	195
Orientation Programme .	06-Aug-2019 13	835
View File		

8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.K.Vidhya	MRP	UGC , New Delhi	2016 3	288000
Dr.S.Andrews	MRP	UGC , New Delhi	2016 3	300000
Dr.R.SathyaPriya	MRP	UGC , New Delhi	2016 3	210000
Dr.S.Sumathi	RPS	AICTE	2019 3	1701960
Dr.Viswanathan	RPS	AICTE	2019 3	650000
Dr.S.Umamaheswari	MODROBS	AICTE	2019 3	850000
Dr.R.Thanigaivelan	MODROBS	AICTE	2019 3	600000
Dr.T.Jesudas	SPDC	AICTE	2019 3	1589147
Dr. P.R.kannan	STTP	AICTE	2019 7	480500
Dr.M.Kannan	FDP	AICTE	2019 7	480500
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	3
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
12. Significant contributions made by IQAC during the current year(maximum five bullets)	
<p>• Participated in NIRF 2020 . Our institution obtained 29 marks. • Participated in ATAL ranking of institutions on innovations achievements ARIIA 2020 . Ranking between 25 to 50 bandwidth • Quality enhancement programmes organized received 4 star in Institutions Innovation Council IIC • Conducted regular IQAC meeting of internal quality assurance cell IQAC and action taken of previous meeting. The minutes of meeting was uploaded in our institution website timely submission of annual quality assurance report AQAR to NAAC • Feedback from all stakeholders like Students, Teachers ,Alumni ,Parents and Employers collected analyzed and used for improvements internal and external academic administrative audit AAA conducted and its follow up action taken, internal auditing conducted yearly twice and external auditing conducted yearly once three departments EEE ECE CSE accredited with NBA TIER 1 • Organized Faculty Enrichment Programme Series (FEPS) for all Faculties . Orientation of CO PO / PSOs , PEOs assessment and attainment. • Memorandum of Understanding for Research and Development between Multi Media University , Malacca, Malaysia (MMU) and Mahendra Engineering College (Autonomous), Namakkal held recently signed in the presence of Dr.Md.Shohel Sayeed, Director of Expertise, Faculty of Information Science and Technology , MMU, Malacca, Malaysia and Dr.R.Samson Ravindran, Executive Director Mahendra Educational Institutions, Salem and Namakkal District. Principal Dr.R..V.Mahendra Gowda and Dr.V.Shavnmugam, DeanSchool of Mechanical Sciences, Dr.C.T.Sivakumar , Executive Officer, Mahendra Engineering College was present in the MoU signing Ceremony. • Multi Media University , Malacca, Malaysia (MMU), having collaboration with renowned top universities in India for exchange Research Ideas and Staff Students Exchange Programmes. • Our College IQAC Director Dr.C.T.Sivakumar received best IQAC Director across India</p>	
View File	
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	

Plan of Action	Achivements/Outcomes				
Publications	One Hundred and Thirty Two Papers were Published				
Guest Lecture	Organized One hundred and Thirty seven Guest lectures				
International Lecture	Organized Twenty Three International Lectures				
Faculty Development Programme	Conducted seven FDP				
Workshop	Organized Fourty Three workshops				
Seminar	Conducted Fourty four seminars				
Technical Training	Organized Twenty Seven Programmes				
Programmes Organized Conference / Symposium	Conducted Fifteen programmes				
Result	Achieved Ninety percentage both UG and PG				
Admission	Target Achieved				
View File					
14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%;"> <thead> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> </thead> <tbody> <tr> <td>Academic Council</td> <td>29-Apr-2021</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Academic Council	29-Apr-2021
Name of Statutory Body	Meeting Date				
Academic Council	29-Apr-2021				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	03-May-2019				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	05-Feb-2020				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	Cloud based Enterprise Resource Planning (ERP) Software for automation of academic and non academic processes is used in the institute to maintain and analyze the data related to various processes of institute. List of modules				

currently operational in the ERP software is as follows: 1. Faculty Profile 2. Students database 3. End Semester Examination Schedule 4. Time tables (Academic/Class and Personal) 5. Students Mentoring 6. Attendance monitoring 7. Library Books issue 8. Lecture Materials 9. Faculty feedback by students 13. ID card generation 14. Roll number generation 15. Admission Process 16. Fees Collection Process 17. Subject allotment 18. TC/Bonafied issue 19. Hostel Management 20. Gate pass issue 21. Faculty Feedback by HoD/Principal 22. Variety of reports pertaining to academic monitoring can be printed

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	1111	Agriculture Engineering	27/02/2019
BE	1041	Electronics Communication Engineering	23/03/2019
BE	1021	Civil Engineering	20/02/2019
BE	1091	Mechanical and Automation Engineering	14/02/2019
BE	P3001	MBA	05/03/2019
BE	1061	Electrical and Instrumentation Engineering	15/03/2019
BE	1081	Mechanical Engineering	15/03/2019
BE	1051	Electrical and Electronics Engineering	06/03/2019
BE	1101	Mechatronics	06/03/2019
BE	1011	Aeronautical Engineering	01/03/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Electrical	06/06/2019	Artificial	06/06/2019

	and Electronics Engineering		Intelligence and Machine Learning	
BE	Electronics and Communication	16/11/2019	Computer hardware and interfacing	16/11/2019
BE	Aeronautical Engineering	16/12/2019	Non Destructive Testing and Evaluation	16/12/2019
BE	Civil Engineering	27/08/2019	Formwork Engineering	27/08/2019
BE	All B.E. Programmes	06/06/2019	Competency Development Programme	06/06/2019
BE	All B.E. Programmes	18/11/2019	Personality Development Programmes	18/11/2019
BE	All B.E. Programmes	06/06/2019	Mini Projects	06/06/2019
BE	All B.E. Programmes	06/06/2019	Professional Ethic and values	06/06/2019
BE	All B.E. Programmes	18/11/2019	Project Phase - II	18/11/2019
BE	All B.E. Programmes	06/06/2019	Environmental Science Engineering	06/06/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Pharmaceutical Technology	06/06/2019
BTech	Food Technology	06/06/2019
BE	Chemical Engineering	06/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	Pharmaceutical Technology	06/06/2019
BTech	Food Technology	06/06/2019
BE	Chemical Engineering	06/06/2019
BE	Civil Engineering	06/06/2019

BE	Aeronautical Engineering	06/06/2019
BE	Computer Science and Engineering	06/06/2019
BE	Electronics and Communication Engineering	06/06/2019
BE	Electrical and Electronics Engineering	06/06/2019
BE	Mechanical Engineering	06/06/2019
BE	Agricultural Engineering	06/06/2019
BE	Information Technology	06/06/2019
BE	Mechatronics	06/06/2019
BE	Electrical and Instrument Engineering	06/06/2019
BE	Mechanical and Automation	06/06/2019
ME	Structural Engineering	06/06/2019
ME	Construction Engineering and Management	06/06/2019
ME	Computer Science Engineering	06/06/2019
ME	Manufacturing Engineering	06/06/2019
ME	CAD Engineering	06/06/2019
ME	Communication Systems	06/06/2019
ME	Control system	06/06/2019
MBA	MBA	06/06/2019
MCA	MCA	06/06/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
CATIA V6	06/06/2019	74
Formwork Engineering	06/06/2019	79
Artificial Intelligence Machine Learning	06/06/2019	50
Data Science and Big Data Analytics with Soft Skills	06/06/2019	50
PLC, SCADA, HMI and VFD	06/06/2019	25
LABVIEW	06/06/2019	15
CATIA	06/06/2019	8
Embedded systems	06/06/2019	35

PLC Programming	06/06/2019	45
Solar PV Technologies	06/06/2019	45
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil	120
BE	Aeronautical	179
BE	CSE	110
BE	ECE	130
BE	EEE	85
BE	EIE	12
BE	Mechanical	191
BE	Mechanical and Automation	15
BE	Mechatronics	41
BE	Agriculture Engineering	60
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Our Institution has established a system of collecting structured feedback on syllabus, its review and teaching-learning process. Every Department collects feedback from the students for all courses twice in a semester. Generally, the first feedback is collected after one month of commencement of classes and the second feedback is collected at the end of the semester before the examinations. One of the regular classes is earmarked for collection of feedback. The feedback is collected by the members of Internal Quality Assurance Cell (IQAC), its Coordinator and Department IQAC member. After collecting the feedback, it is analysed by a common statistical method. The feedback analysis covers the faculty promptness to classes, quality of teaching, coverage of syllabus, preparing the students for examination, innovative practices followed by the faculty, evaluation procedure, interaction with students, and any revision required in the syllabus. The consolidated report for the feedback of all courses is submitted to the HOD and Principal for taking corrective action if required. The feedback, if any on revision of syllabus given by the students, will be taken up by each Department during the Board of Studies (BOS) meeting. Every Department has BOS for each programme. It consists of Faculty members (Teachers), Industry Experts (Employers), Alumni</p>

and an Academic Expert (University nominee). The draft curriculum and syllabi prepared by the Department is discussed in the BOS meeting. The feedback and suggestions given by the members of BOS is recorded in the minutes of the BOS meeting and accordingly the revised curriculum and syllabi is prepared, which is presented by the HOD in the Academic Council meeting. The Academic Council deliberates on the issue and passes the resolution to approve the revised curriculum and syllabi or amend if anything is required.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	B.E- Food Technology	60	24	16
BE	B.E-Chemical Engineering	60	25	17
BE	B.TECH. -Information Technology	120	129	120
BE	B.E. -Electronics and Communication Engineering	120	100	84
BE	B.E- Mechanical and Automation Engineering	60	40	33
BE	B.E. - Mechanical Engineering	180	160	132
BE	B.E.-Aeronautical Engineering	60	65	59
BE	B.E- Mechanical and Automation Engineering	60	40	33
BE	B.E- Mechatronics	60	55	51
BE	B.E. - Computer Science and Engineering	120	130	120

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2019	3843	414	245	42	287

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
287	287	1725	75	75	1280

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

[View File of E-resources and techniques used](#)

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

Yes, the Students mentoring system is very much available in the Institution. Each Department identifies the list of faculty members to mentor a set of students regularly. Each faculty member is allotted with 10 students for mentoring them (from 1st year to final year). The Mentor regularly meets those students and discuss about Student's performance in terms of Academic, co-curricular, extra-curricular activities and related issues, and offer counseling for improvement. In addition, Anti-ragging Committee and Students Discipline and Welfare Committee are functioning to ensure students safety and welfare. Through Women Empowerment Cell (WEC), a variety of activities and awareness programs are conducted to enhance the confidence of Girls. Also, several Clubs are functioning to encourage students' participation in their areas of interest.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4257	287	1:15

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
12	12	Nil	12	1

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Mr.K.Balakrishnan	Assistant Professor	Best Young Engineer Award
2019	Dr.P.Ramya	Associate Professor	Outstanding Women in Engineering -received from Venus International Women Awards
2019	Dr.C.Dhavamani	IQAC / CIQA coordinator	Executive Council Member - Mechanical Division, IE(I) , Salem

2019	Dr.K.Vidhya	IQAC / CIQA coordinator	Achievement award for best academician
2020	Dr.V.Shanmugam	Dean	Top Performance Mentors Award NPTEL Course
2020	K.Karthikeyan	Assistant Professor	Suradha Award,Tamilnadu Tamil Sangam
2019	Dr.M.Kannan	Professor	UiPath Academic Challenge 2019-received from Outstanding Performance-ICT Academy
2019	Dr.Y.Shantharam	Assistant Professor	Best Young Engineer Award
2019	Dr.C.Dhavamani	IQAC / CIQA coordinator	Executive Council Member, Indian Chamber of Commerce, Salem
2019	Dr.M.Kannan	Professor	Ulektz Wall of Fame-received fromAcademic council of ulektz
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
ME	5051,5082,5021,5022,5032,5041,5051	2/I, 4/II	11/05/2020	30/10/2020
BE	1011,1111,1021,1081,1091 1101,1031,1041,1051,1061,2071	2/II, 6/III, 8/IV	11/05/2020	30/10/2020
MBA	P3001	1 semester - I year	09/11/2019	20/11/2019
MCA	P4001	1 semester - I year	09/11/2019	20/12/2019
BE	1011,1111,1021,1081,1091,1101,1031,1041,1051,1061,2071	3,5 and 7 semesters - III, V and VII years	09/11/2019	20/12/2019

ME	5051,5082,5021, 5022,5032,5041, 5051	1/I 3/II	09/11/2019	20/12/2019
MCA	P4001	2/I, 4/II	11/05/2020	30/10/2020
MBA	P3001	2/I, 4/II	11/05/2020	30/10/2020
BE	1011,1111,1021, 1081,1091,1101, 1031,1041,1051, 1061,2071,112,1 13,114	1/I	18/12/2020	31/12/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
80	3699	2.16

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.mahendra.info>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
U1081	BE	Mechanical Engineering	190	141	74
U1021	BE	Civil Engineering	79	55	70
U1111	BE	Agriculture Engineering	59	49	83
U1011	BE	Aeronautical Engineering	47	40	85
U1091	BE	Mechanical and Automation Engineering	16	12	75
U1101	BE	Mechatronics	41	32	78
U1031	BE	Computer Science and Engineering	85	63	74
U1041	BE		84	72	86

		Electronics and Communication Engineering			
U1051	BE	Electrical and Electronics Engineering	86	60	70
U1061	BE	Electronics and Instrumentation Engineering	10	8	80
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.mahendra.info/pdf/SSS-2019-2020.pdf>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr . C . Dhavamani
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
No Data Entered/Not Applicable !!!				
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2	CSIR	0.25	0.25
Any Other (Specify)	7	Anna University	0.4	0.4
Any Other	28	AICTE	4	4

(Specify)				
Any Other (Specify)	28	AICTE	3.07	3.07
Any Other (Specify)	14	AICTE	0.93	0.93
Major Projects	1095	AICTE	17.02	16.62
Major Projects	1095	AICTE	6.5	6.25
Major Projects	1095	AICTE	8.5	8.5
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Space Mechanics	Aeronautical Engineering	28/01/2020
Dronics	Aeronautical Engineering	13/03/2020
Geometric Dimensions and Tolerance	Aeronautical Engineering	06/06/2019
Entrepreneurship	MBA	03/12/2020
Formwork engineering	Civil Engineering	21/01/2020
Formwork engineering concrete (coofec)-refresher course	Civil Engineering	09/01/2020
Formwork engineering and concrete	Civil Engineering	20/01/2020
Novelty in urban waste water management strategies	Civil Engineering	30/01/2020
Hands on training on advanced surveying	Civil Engineering	10/03/2020
Steel structures design using tekla	Civil Engineering	06/05/2020
The do's and don'ts of general construction	Civil Engineering	12/05/2020
Written communication skills (webinar)	English	25/05/2020
English Language Competence (Quiz)	English	26/06/2020
Life skills for career	English	17/09/2019

development		
Entrepreneurship - A Practical Perspective	MBA	27/10/2020
Entrepreneurship	MBA	03/12/2019
Entrepreneurship Opportunities in Stock Market	MBA	10/10/2020
Intellectual Property Rights (IPR)	MBA	24/08/2020
Elegant Way to Acquire Intellectual Property Rights (IPR)	MBA	27/07/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Faculty Project	Ms.P.Saradha	Dr.Kalam Education Trust	21/03/2020	Faculty
Best Young Engineer	Mr.Y.Shantharam	Institute of engineers (IEI), Salem	23/03/2019	Faculty
Best Vice President	Mr.S.Mohan	Macro Miracle, SST, MET	16/02/2019	Faculty
Best administrator	Dr.K.Vidhya	Dr.Kalam Education Trust	21/03/2020	Faculty
Achievement award for best academicians	Dr.K.Vidhya	19th Viswakarma award - CIDC, Planning Commission, Government of India	23/03/2019	Faculty
Education Across India	Dr.M.Kannan	Academic council of ulektz	25/07/2020	Faculty
Top 50 Distinguished HODs CSE/ IT Department in Higher	Dr.M.Kannan	Academic council of ulektz	17/03/2020	Faculty
Best Young Engineer	Mr.K.Balakrishnan	IE(I)	18/09/2019	Faculty
UiPath Academic Challenge 2019- Outstanding Performance	Dr.M.Kannan	ICT Academy	28/11/2019	Faculty
Tech Savvy Academicians in Higher Education	Dr.M.Kannan	Academic council of ulektz	25/11/2019	Faculty

Across India

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Mahendra Technology Incubation Centre	Mr.Velusamy	MSME	Design and Fabrication of Eco Friendly Tiles Machine	Product	15/03/2019
Mahendra Technology Incubation Centre	Mr.Thiyagarajan	MSME	Development of Laccase Enzyme Based Water Purifier and Detergent enhancer	Technology	09/04/2019
Mahendra Technology Incubation Centre	Mr.R.Gunasekaran	MSME	Miniature Scale Industrial Ash Aggregate Plant	Technology	05/02/2019
Mahendra Technology Incubation Centre	Ms.Sivabakgum	MSME	Design and Fabrication of Automatic poultry feeder	Technology	07/03/2019
Mahendra Technology Incubation Centre	Mr.Jayakumar	MSME	Physio Fast Heal Assistive Technology	Product	18/03/2019
Mahendra Technology Incubation Centre	Mr.Raghusaravanan	MSME	Design and Fabrication of Sew Seed Dibbler	Technology	18/02/2019

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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Electrical and Electronics Engineering	2
Electronics and Communication Engineering	3
Civil Engineering	1
Mechanical Engineering	2
Computer Science Engineering	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Agriculture Engineering	3	Nil
International	Aeronautical Engineering	5	Nil
International	Civil Engineering	6	Nil
International	Computer Science and Engineering	14	Nil
International	Information Technology	6	Nil
International	Electronics and Communication Engineering	15	Nil
International	Electrical and Electronics Engineering	14	Nil
International	Mechanical Engineering	5	Nil
International	Mechatronics	5	Nil
International	English	4	Nil

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

Department	Number of Publication
Computer Science and Engineering	1
Mechanical Engineering	1

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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Secure and Reliable Smart E-voting System using Aadhar Card	Published	201941018956 A	Nil
A Simple and Effective Device for Detecting and Diagnosing the earlier	Published	201941013976 A	Nil
Industrial induction heater power converting system and a method	Published	201941003361 A	Nil
Horizontal Axis, Cam Guided, Telescopic Blade,	Published	201841033956A	Nil

Yaw Controlled			
Geofence based border limiting System	Published	201941033492 A	Nil
Flexible Sliding Stretcher	Published	2.02E11	Nil
Quick-wotted cloth cradle for newborn babies to reduce sleep disorders	Published	202041017580 A	Nil
Quick Witted cloth cradle	Published	330609-001/D/SP	Nil
Transmission power and frequency based network selection scheme for minimizing the harmful radiation from GSM mobiles	Published	2.02041E+11	Nil
Automatic Braeking system in Automobiles	Published	2.01941E11	Nil
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
A Dynamic Technique to Enhance Quality of Service in Software Defined Networking based Wireless Sensor Network (DTEQT) Using Machine Learning	R.Vijaya rajeswari	International Journal of Wavelets, Multi resolution and Information Processing	2019	Nil	Mahendra Engineering College	Nil
Recommendation System to Improve Students' Performanc	P Ramya, S G Bala krishnan M Kannan	IOP: Materials Science and Engineering	2020	Nil	Mahendra Engineering College	Nil

e using Machine Learning						
Heart signal analysis on multi-domain features extraction by SVM classifier in smart monitoring system	Dr.S.Sumathi	International Journal of Innovative Technology and Exploring Engineering	2019	Nill	Mahendra Engineering College	Nill
Application of AIS on closed loop controller design in buck converter	S. Sumathi	International Journal of Recent Technology and Engineering,	2019	Nill	Mahendra Engineering College	Nill
Fuzzy and PID Controllers for Buck-Boost Converter Fed Bridgeless BLDC Motor over Cloud	P.Umasankar	International Conference on Intelligent Data Communication Technologies and Internet of Things,	2019	Nill	Mahendra Engineering College	Nill
An automatic single axis tracking and cleaning mechanism for solar photovoltaic system	G.Dinesh	International journal of scientific development and research	2019	Nill	Mahendra Engineering College	Nill
Identification of stroke diagnostic classification using machine learning",	S.Sumathi	Solid state Technology,	2020	Nill	Mahendra Engineering College	Nill
Effect of Nickel Addition on Microst	Mr.M.Rajadurai	Transactions of the Indian Institute	2019	2	Mahendra Engineering College	Nill

structure and Mechanical Properties of the Spark Plasma Sintered Ti-6Al-4V Alloy		of Metals				
Effect of various sintering methods on microstructures and mechanical properties of titanium and its alloy (Ti-Al-V-X): A review	Mr.M.Rajadurai	Russian Journal of Non-Ferrous Metals	2019	2	Mahendra Engineering College	Nil
Traits of Outsourcing Bigdata in V's Term with Safe Secure Cryptosystem	Dr.A.Neela Madheswari	TEST Engineering and Management	2019	Nil	Mahendra Engineering College	Nil
View File						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
A novel hybrid optimized and adaptive reconfigurable framework for the implementation of hybrid bio-inspired classifiers for diagnosis	Viswanathan Nallasamy	Journal of Microprocessors and Microsystems	2020	Nil	Nil	Mahendra Engineering College
Classifi	Dr.R.	Measurem	2019	41	Nil	Mahendra

cation of mammogram for early detection of breast cancer using SVM classifier and Hough transform	Vijaya rajeswari	ent				Engineerin g College
An Enhanced Symptom Clustering with Profile Based Prescription Suggestion in Biomedical application	Dr.R. Vijaya rajeswari	Journal of medical systems	2019	1	Nil	Mahendra Engineerin g College
Application of AIS on closed loop controller design in buck converter	S. Sumathi	International Journal of Recent Technology and Engineering	2019	1	Nil	Mahendra Engineerin g College
Optimization of Recent aspects of power converters	S.Sumathi	International Journal of Scientific Technology Research,	2019	2	Nil	Mahendra Engineerin g College
New opposition cuttlefish optimizer based two-step approach for optimal design of fractional order proportional integral derivative controller for time delay systems	P.Umasan kar	International Journal of numerical model	2019	2	Nil	Mahendra Engineerin g College

Effect of Nickel Addition on Microstructure and Mechanical Properties of the Spark Plasma Sintered Ti-6Al-4V Alloy	Mr.M.Rajadurai	Transactions of the Indian Institute of Metals	2019	3	Nil	Mahendra Engineering College
Effect of various sintering methods on microstructures and mechanical properties of titanium and its alloy (Ti-Al-V-X): A review	Mr.M.Rajadurai	Russian Journal of Non-Ferrous Metals	2019	3	Nil	Mahendra Engineering College
Segmentation and boundary detection of fetal kidney images in second and third trimesters using kernel-based fuzzy clustering	P.Suresh Kumar,	Journal of medical systems, c	2019	2	Nil	Mahendra Engineering College
Some Investigations on Heterogeneous Deep Learning Network using Stable Election Protocol with Region Based Energy Con	P. Suresh Kumar	International Journal of Advanced Science and Engineering	2019	Nil	Nil	Mahendra Engineering College

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	Nil	Nil	Nil	2
Attended/Seminars/Workshops	Nil	Nil	Nil	2
Attended/Seminars/Workshops	Nil	Nil	Nil	2
Attended/Seminars/Workshops	Nil	4	Nil	Nil
Attended/Seminars/Workshops	Nil	3	Nil	Nil
Attended/Seminars/Workshops	Nil	4	Nil	Nil
Attended/Seminars/Workshops	Nil	1	Nil	Nil
Attended/Seminars/Workshops	Nil	3	Nil	Nil
Attended/Seminars/Workshops	Nil	1	Nil	Nil
Attended/Seminars/Workshops	Nil	4	Nil	Nil

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Computer Science Engineering	Website Development Billing Software	Sanjana Systems	195000
Computer Science Engineering	Mobile App Web application development	Ability software	155000
Electrical and Electronics Engineering	Energy Auditing	Mangla Smart Energy solutions, Tirupur	240000
Electrical and Electronics Engineering	Switchgear Maintenance	Frankinsteins Engineering Laboratories Private Limited, Tirupur	260000
Mechatronics	SS Technovation, Coimbatore.	SS Technovation	200000
Mechanical Engineering	Dyeing Machine	Tony Engineering Pvt.Ltd., 4/638,	200000

		Veerapandy Pirivu, Palladam Road, Tiruppur.	
Electronics and Communication Engineering	Voice controlled based security monitoring system and E Management	Raana Power Solutions,Salem	402778
Civil Engineering	Compressive strength of concrete slab	G.K. Construction, Erode	140000
View File			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
No Data Entered/Not Applicable !!!				
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Dengue awareness programme	NSS	8	450
Blood donation day	NSS	10	150
International yoga day	NSS	7	125
World environmental day	NSS	4	120
Importance of Professional Ethics and Human Values	NSS	5	125
“Horn Not Ok Please (HNOP)” Campaign	MEC Student Club	17	35
To Show Safety of Girls Harassment Awareness Activity	MEC Student Club	4	25
To Show Environmental Awareness Activity (Don't Use Plastics)	MEC Student Club	5	20
Airshow and Demo of Aircraft Activity	MEC Student Club	4	20

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
IIC	IIC Brand Ambassador	MHRD	800
Technical an societal and field	Treasurer	American Society of Civil Engineer	255
Seminar / Workshop	Executive Council Member - Mechanical Division	Institution of Engineers (India)	750
Societal Activity	NSS	Tamilnadu NSS	125
Skill Training	Executive Council Member - Mechanical Division	CII (confederation of Indian Industry)	120
Technical Events	SMC member	ISTE (Indian Society of technical Education)	350
Technical Activities	Associate member	ICI (Indian Concrete Institute)	175
Societal Activity	NCC	NCC	25
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Societal Activities	NSS	Road safety awareness	8	450
Societal Activities	NSS	Dengue awareness programme	7	250
Societal Activities	NSS	Blood donation day	10	150
Societal Activities	NSS	International yoga day	7	125
Societal Activities	NSS	World environmental day	4	150
Societal Activities	NSS	Importance of Professional Ethics and Human Values	5	125
Aerospace Booster Club	Student Club	Airshow and Demo of Aircraft Activity	4	20

Executive Club	Student Club	To Show Environmental Awareness Activity (Don't Use Plastics)	5	20
Designer Club	Student Club	To Show Safety of Girls Harassment Awareness Activity	4	25
Awareness Programme	Student Club	"Horn Not Ok Please (HNOP)" Campaign	17	35
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Workshop- STEEL STRUCTURES DESIGN USING TEKLA	Students	Institution	1
Seminar - THE DO'S AND DON'TS OF GENERALCONSTRUCTION	Students	Institution	1
Seminar - REVOLUTION OF FORMWORK IN CONSTRUCTION	Students	Institution	4
Seminar - LT FORMWORK SYSTEMS AND DESIGN	Students	Institution	1
Workshop - BASICS CONCEPTS OF FORMWORK ENGINEERING	Students	Institution	1
Guest Lecture - FORMWORK ENGINEERING AND CONCRETE	Students	Institution	4
Mails - BASIC DESIGN CONCEPTS AND FORMWORK SYSTEMS	Students	Institution	1
Workshop - FORMWORK RESOURCE PLANNING	Students	Institution	1
Short Term Course- FORMWORK ENGINEERING CONCRETE	Students	Institution	2
Workshop - DEMONSTRATION OF	Students	Institution	2

VARIOUS FORMWORK SYSTEMS

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Cloud Computing	Surya Informatics Solution Pvt Ltd, Chennai	02/01/2020	30/03/2020	3 students
Internship	Bigdata	Triple Tech Soft, Salem	02/11/2019	27/11/2019	4 students
Internship	Mobile Application Development	Litztech, Coimbatore	26/08/2019	31/08/2019	2 students
Internship	PHP Programming	SaNDS Lab Pvt. Ltd.	11/11/2019	23/11/2019	3 students
Internship	Instruments service and software installment	Meril Corporate, Gujarat	03/02/2020	21/02/2020	1 student
Internship	Python	Pantech, Coimbatore	03/01/2020	07/01/2020	2 students
Internship	Python	Uniq Technologies, Coimbatore	03/01/2020	07/01/2020	4 students
Project Work	Project work	Barola Aero Pvt Ltd, Chennai	05/11/2019	04/12/2019	10 students
Skill oriented Training	Siemens Center of Excellence	NIT-Trichy	05/12/2019	20/12/2019	95 students and one faculty
Training and Placement	CATIA Training	Harita Tech Serv	16/07/2019	19/12/2019	74 students

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Siemens Center of	06/04/2019	Skill training	150

Excellence			
SS Technovision - Coimbatore	09/01/2020	Training Programme	60
Infosys Limited Campus Connect	22/02/2019	Faculty Enrichment Programme	102
UI Path Academic Alliance	20/02/2019	UI path RPA Challenge Program	250
ABE Semiconductor and Design Pvt Lt	05/12/2019	Seminar conducted and Internship	25
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
1100	1079

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LMS - Autolib	Fully	5.1	2018
LMS- Bloom Technologies	Fully	6.3	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	104394	42773396	Null	Null	104394	42773396

Reference Books	7450	2145000	Nil	Nil	7450	2145000
Journals	1961	4276024	219	573968	2180	4849992
Digital Database	19	1339164	2	705968	21	2045132
e-Journals	8800	1922336	802	705968	9602	2628304
CD & Video	5978	108275	17	Nil	5995	108275
Library Automation	1	45000	1	25000	2	70000
Weeding (hard & soft)	688	Nil	Nil	Nil	688	Nil
Others (specify)	3711	Nil	3711	Nil	7422	Nil
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.S.Umamaheswari	Boimedical Instrumentation	Learning Management System (LMS)	03/06/2019
Dr.S.Sumathi	Design of Electrical Machines	Learning Management System (LMS)	03/06/2019
Dr.P.Suresh kumar	Design of Electrical and Electronics	Learning Management System (LMS)	03/06/2019
Ms.P.Saradha	Design of Steel Structures	Learning Management System (LMS)	03/06/2019
Dr.Y.Shantharam	Foundation Engineering	Learning Management System (LMS)	03/06/2019
Dr.C.Dhavamani	Strength of Materials	Learning Management System (LMS)	03/06/2019
Dr.P.Balashanmuga Vadivu	Linear Integrated Circuits	Learning Management System (LMS)	03/06/2019
Dr. P.Ramya	Data Base Management System	Learning Management System (LMS)	03/06/2019
View File			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1260	13	50	2	1	15	25	70	0
Added	0	0	0	0	0	0	0	0	0
Total	1260	13	50	2	1	15	25	70	0

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

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Dr.C.Dhavamani	https://www.youtube.com/watch?v=FXLPpC3llac
Dr.K. Vidhya	https://youtu.be/L7FD-UAqtvU
Mr.S.Manishankar	https://youtu.be/p6p7e4n6Jw0
Dr.Y.Shantharam	https://youtu.be/3Jkt3aOX9Bk

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
37.48	37.48	343.34	343.34

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

Expansion of Etechnology has enhanced the use of computers in curriculum development, teachinglearning, evaluation and research. ? Students are encouraged to make use of computers for Power Point Presentations of their seminars and projects. ? Internet connectivity is given to all the departments. Internet browsing is available for teachers and students at the Internet Centre free of cost during the working hours of the library. physical education classes allotted for all students Library hours is given in all students As per requirement Lab hours are scheduled .

www.mahendra.info

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support	Mahendra	738	44478000

from institution	Educational Trust		
Financial Support from Other Sources			
a) National	Scholarships and free ships provided by the Government	2056	103865320
b)International	Nil	Nil	Nil
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Mahendra Academy for Technical Training and Placement	06/12/2019	850	MR.Sujith Kumar, Infosys HR , Managing Director, Matram Foundation addressed our students of Softskills
Inauguration M-First at our Mahendra Engineering College and Awareness Programme on Innovation	09/10/2019	850	Mrs.P.Usha, CEO, Namakkal District addressed the gathering of 1500 students. Our Management contributed Rs.2,50,000/- to 25 schools (Rs.10,000/- per school for 25 Schools) for developing Innovation ideas.
Importance of Engineering Education and Goal Setting / Literary Activity / Human Values Mentoring / Yoga/ Meditation	06/08/2019	920	Mahendra Engineering College
Blood Donation camp with Salem Blood Bank for International Volunteers Blood Donors Day	01/10/2019	157	Saravana Hospital
CII YI awareness on Organ donar by CII -YI	07/08/2019	60	CII-YI
Evening Complementary Coaching Classes-EC2	26/08/2020	410	Mahendra Engineering College

Softskill Development Training	15/06/2019	3820	Mahendra Engineering College
Women are the Real Architects of Society	22/06/2019	450	National Technical Committee Member - NCDRC
Women in Cyberspace - Challenges and Strategies	30/08/2019	100	Edgeverve System, Bangalore
Online Fraud and Harassment	01/08/2019	35	Edgeverve System, Bangalore
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	SSCJE	177	177	Nil	Nil
2019	UPSE	97	97	Nil	Nil
View File					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Mahendra Engineering College - Placement cell	750	529	other organizations	112	23
View File					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.E.	Civil	Conventry University,	M.S.Construction

				UK	Engineering and Management
2020	2	B.E	Aeronautical	Sapienza University at Rome, Italy	M.S Aerospace Engineering
2020	1	B.E	Aeronautical	Dresden University of Technology/ Germany	Dresden University of Technology/ Germany
2020	1	B.E	Aeronautical	Mahendra Engineering College	M.E.CAD
2020	1	B.E	Aeronautical	NTU, Singapore	M.S Aerospace Engineering
2020	1	B.E	Civil	Periyar University	MBA
2020	3	MBA	Civil	Mahendra Engineering College	ME - Structural Engineering
2020	1	B.E	Civil	Mahendra Engineering College	MBA
2020	1	B.E	EIE	Annapoorna Engineering College	M.E power Electronics & Drives
2020	1	B.E.	Mechanical	Sona College of Technology	MBA
View File					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	3
TOFEL	4
CAT	2
GRE	2
Civil Services	2
Any Other	32
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
BADMINTON (W)	Inter college	25
BALL BADMINTON (W)	Inter college	20

VOLLEYBALL (W)	Inter college	24
CRICKET (M)	Inter college	110
VOLLEYBALL (M)	Inter college	48
FOOTBALL (M)	Inter college	72
CHESS (M)	Inter college	35
KABADDI (M)	Inter college	48
BASKETBALL (M)	Inter college	72
BADMINTON	Inter college	45
View File		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold medal	National	1	Nill	Nill	K.Nirmal, S.Balaji, A.Sarathi, E.Vidhya sagar
2019	Silver medal	National	1	Nill	Nill	Noel Edwin.S, Maheswaran. A, Hariharan.s
2019	Silver medal	National	1	Nill	Nill	Kowsalya .S, Geetha.S, Sushmitha. P - Team
2019	Silver medal	National	1	Nill	Nill	V.N.Nishar and AP.Ansad - Team
2019	Silver medal	National	5	Nill	Nill	P.Velusamy, J.Jabastinjothi, K.Praveen, S.Rajeswari, M.Siva
2019	Bronze medal	National	1	Nill	Nill	R.Sathishmannar
2019	Bronze medal	National	1	Nill	Nill	Prakash.NR and Team
2019	Bronze	National	1	Nill	Nill	Sabarikr

	medal					ishnan.V and team
2019	Bronze medal	National	1	Nil	Nil	Anbu kumar.B and Team
View File						

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

In our Institution, students are actively participating in academic and administrative bodies/committees. The students' representatives are involved in academic committees such as Class Committee, Department Students Association and Professional Societies, etc. Students are also representatives in various administrative committees such as Students Grievance Redressal Committee, Internal Complaints Committee (Prevention of Sexual Harassment) and Anti-ragging Committee. Students also participate and provide feedback on teaching to improve the academic system. Students also participate in extracurricular activities like NSS, NCC and YRC. In continuation of these activities students are participating in several awareness programs in order to have societal awareness on rain water harvesting and plastic-free environment, etc. In addition students actively participate and organise many club activities, viz., Green club, Communication, Design club and Societal activities to explore and emphasise the field of interest. In Macro Miracles club activities student secretaries are deputed to well structure and organize different themes in the club activities. The outstanding performers act as mentors to other 15 students who will be the mentees to receive guidance. The mentor-mentee system of 1:15, focus on counselling students (slow learners) and promote the collaborative learning in academic activities and career guidance. In the department association activities like workshop, symposium, conference, etc., the students' representative is nominated by the students. The key role of the student representative is governing the program committee formation, planning and execution of activities. Majority of the students are registered under the various professional societies like IEI, ICI, CSI, ISTE, EWB, IEEE and ASCE. Through these bodies students regularly attend the programs like workshop, seminar, conference and symposium in reputed institutions, and also they conduct many technical competitions, social activities, site visits and exhibitions, etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association plays a prime role in networking the graduates with the Institution. Our Institution has an active Alumni Association with the office bearers as given below: Chairman - Dr.S.Raju, Professor and Head/ Information and Technology, 2. Secretary -Dr.N.Viswanathan, Professor and Head / Electronics and Communication Engineering, 3. Treasurer - Mr.S.Premkumar, Assistant Professor, Computer Science and Engineering, and Alumni members. The Alumni Association meets every year and conduct the General Body Meeting to decide important activities such as Alumni day celebration, alumni meet and alumni mentors, etc. The Mahendra alumni meet is conducted at national and international level. In the national level the alumni meets are conducted at Bangalore, Coimbatore, Chennai and various places. The students working in those regions are gathered and alumni day has been celebrated to share their experience and industrial exposure to the students. Alumni meet is also conducted at international level wherein the students working abroad gather and observe the alumni day. The Institution is initiated a novel Mahendra Alumni

Interactive Lecture Series (MAILS), wherein the alumni are invited by each department to deliver special lectures to the students to enable them gain the field exposure, technical skills, employment and entrepreneurship skills. Every department organises around 6-10 MAILS programs in a year, and also alumni mentor have been identified for every year 250 students to guide them for their better placements and technical knowledge sharing, etc. The alumni also help to schedule internships and in-plant training for the students in the various fields of interest. Very importantly, every Department invites the Alumni working in esteemed organizations as Board of Studies members for framing the academic curriculum and syllabus and to get feedback to enhance the present curriculum and syllabus. Also, one distinguished Alumnus is invited for the Result Passing Board meeting of the Institute being conducted during every semester end.

5.4.2 – No. of registered Alumni:

1025

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meeting - 2 Activities - 32

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institution functions with the method of decentralized governance system. The Head of the Institution is functioning effectively with the culture of participative management. He plans and decides the Academic Calendar for each semester in consultation with the Management and HODs. The Academic Calendar consists of the following: Total no. of Working days, Holidays, Internal Test slots, End Semester Exam fees payment dates and duration, Department Symposiums, FDPs, Reopening date for the next semester, etc. It is circulated amongst all faculty members and students for their information and record. The Heads of the Departments plan and decide the academic activities and assign the responsibilities to the faculty members. Every Department plans to prepare the timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops, Innovative and best practices, organizing FDPs, IOT courses and recommends signing MoUs with industries for industrial visits, inplant trainings, internships and placement. The Institution practices participation from stakeholders, which enables the faculty members and students to give their feedback and suggestions for improvement of the academic and co-curricular activities. All the academic activities are decentralized and decisions are taken based on discussion with class committee meetings, department meetings, HODs' meetings with Principal and Chairman. The Head of the Institution coordinates with the departments, administration and management. The Principal conveys all matters in the meeting to HODs, Dean Academics, Training Placement Officer, Librarian and Director of Physical Education, AO, etc. The points discussed in the meeting are communicated to the faculty members, students and others concerned for implementation. The Controller of Examinations plans, conducts and monitors the Internal Tests, End Semester Examinations for each semester in line with the schedule received from the affiliating university. The Departments organize various Association Activities such as IEEE, ISTE, CSI, IE events, NPTEL Course registration, Guest Lectures, FDPs, Innovation and

best practices, Video Classes, Industrial Visits, Internships training, Soft skills Training, Placement Training, Internal Quality Audit, External Audit, IQAC Meetings, Workshops / Conferences. The College organizes Freshers' Day, Women's Day, Engineers' Day, Teachers' Day, Sports day, Annual day, Science day and Graduation Day, Alumni Association Day, etc. The Boards of Studies in each Department prepares the curriculum and syllabi for the UG and PG programmes. It is approved in the Academic Council meeting. The policy decisions are taken in the Governing Council meeting. The Finance Committee meeting and Result Passing Board meetings are conducted periodically. The meeting of other non-statutory Committees such as Anti-ragging Committee, Discipline Committee, Grievance Redressal Committee, Internal Complaints Committee are conducted periodically wherein the representatives of students and faculty members are present and give feedback and opinions. There is a free flow of communication both horizontally and vertically for smooth fashioning and interaction. The Organizational changes and improvement needs are effectively implemented not only based on needs, most importantly taking into account meeting the "Excellence".

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Curriculum Development • Curriculum under Choice Based Credit System enables the Placement Cell to conduct Placement training so as to help students for acquiring the necessary soft skills leading to better employment opportunities. • The Choice Based Credit System followed at present in the college facilitates a flexible and wide range of selection of prescribed papers for students. • Communication and Soft Skills Based Elective courses, open elective and Industry based subjects are available to students irrespective of their major subjects.
Teaching and Learning	College provides quality education in various disciplines ranging from English to Professional courses. • Student creativity can be fostered. • The college also organizes special teaching and coaching classes for such students to enhance their employability and competitive strength. • Learning is based on context so generalizing learning to new contexts is not spontaneous but instead needs to be facilitated. • Inbasket training methodology for UG PG students enables them to acquire the skills required by the corporate trend. • Meaningful learning is initiated through guided

teaching and guided library assignments, group discussion, seminars, debates, quiz, viva, etc. • Focusing on research the college initiated research tasks for the students as a part of extracurricular activity through project work, on the spot study, and survey.

Examination and Evaluation

Semester system with Continuous Internal Assessment (CIA) is followed.

- The Principal and the Heads of the various Departments monitor the performance of the students by making a through analysis after every internal test and end semester examination.
- The teachers make an analysis of the performance of students after every internal test and end semester examination in the Departmental Meetings.
- The performance of students is analyzed in the Academic Council meeting in every December and by the Governing Body meetings in March.
- Result passing board meeting is being conducted before publishing the results of the end semester examination.

Research and Development

During this academic year 209 research papers were published in National and International Journals. 112 papers were presented in International Conferences and 83 papers were presented in national Conferences and seminars. 14 research scholars have obtained their Ph. D. from the research centre of our college. 2 major projects and 5 minor projects were sanctioned by funding agencies. 189 teachers have participated in Orientation Programmes and Refresher Courses. 5 Proceedings have been published.

Library, ICT and Physical Infrastructure / Instrumentation

During this academic year 209 research papers were published in National and International Journals. 112 papers were presented in International Conferences and 83 papers were presented in national Conferences and seminars. 14 research scholars have obtained their Ph. D. from the research centre of our college. 2 major projects and 5 minor projects were sanctioned by funding agencies. 189 teachers have participated in Orientation Programmes and Refresher Courses. 5 Proceedings have been published.

Human Resource Management

The Principal shall assess in the month of April every year, the staff

requirement for the subsequent academic year. • He will obtain the staff requirement lists from all the Heads of department and arrive at the number of faculty members, Lab assistants and administrative staff required with the following guidelines in mind. • He will consider appointing a Professor to be the Head of every discipline, besides the number of Assistant Professors and Lecturers required in accordance with the teacher student ratio prescribed herein. • The teacher student ratio shall be 1:20 and for this purpose the Professor shall also be included in counting the number of teachers. • He will appoint a selection committee for recruitment in each discipline, composed of the Principal, HOD and the Department's Advisors/Experts from the neighboring institutions.

Human Resource Management

The selection committee shall prepare a job description and job specification for the candidate to be recruited. • The committee shall augment candidature in a ratio of 1:3 for every position to be filled from any or all of the following sources: Advertisements in the Newspapers, Files maintained for storing the unsolicited applications and References. • If the committee deems it fit, may also conduct Walk in Interviews for augmenting the required candidates. • The committee shall shortlist the candidates in the following processes: Personal interviews and class room demonstrations. • The committee shall finalize the short listed candidates and submit their recommendations along with the personal data sheets of the candidates to the Chairman/ Managing Director who in turn will approve the decisions of the committee on the appointment. • An Offer of appointment shall be released by the Principal through HR.

Industry Interaction / Collaboration

Coimbatore Industrial Infrastructure Association (Co India), Coimbatore • Irrigation Management Training Institute, Trichy • Msme, New Delhi • Arvin Varsity, Chennai • Mangalasmart Energy Systems ,Tirupur • Bypro Technology, Chennai • Infosys Campus Connect, Bangalore • Mection Training Technical Systems, Chennai • Codissia, Coimbatore • Prayojana training

Institute • Apex Hightech Institute, Bangalore • Frankinsteins Engineering Laboratory Pvt. Ltd., Erode • FESTO, Bangalore • ROOTS Industries • SS Techno vision, Coimbatore • REDHAT Academy • Barola Aero sports(P)Ltd • TVS Harita • Hyderabad Acilines • Mangla Smart Energy Solution, Tirupur • General Electrical and Electronics Solution, Salem • KCP Solar Industries, Salem • GA Software Technologies.

Admission of Students

As per the Tamilnadu state Government of Technical Education, Admission rules and regulations, based on Counselling and Management quota are followed. • There shall also be a meritbased, lateral admission of students having Diploma qualification to the second year of all the programmes at the College in accordance with the Government rules applicable for such admissions. • The College website, prospectus and the curriculum design book contain information about the institution and the programmes offered. The prospectus that highlights the details of various programmes of the College is prepared every year prior to the commencement of admissions. The prospectus also gives details of eligibility norms for admission. It is given to the applicants along with the application form. • A customized admission software package has been developed to facilitate the admission process.

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

E-governance area	Details
Planning and Development	Perspective plan for the period 2018-2023 uploaded in the ERP Software. Milestones achieved are updated. Plans to be achieved are followed up by periodical reviews.
Administration	Various activities such as Scholarships, HR functions, event management etc., are managed through the ERP Software
Finance and Accounts	Finance and Accounts
Student Admission and Support	Admission is done with Management Information System for both Government and Consortium Quota students. The profiles of all the students are collected, maintained and used digitally. This is also shared with

	affiliating University. All the data regarding different student categories and the support provided through scholarships are managed through ERP Software
Examination	All the examination related activities such as student's registration, seating arrangement, hall allocation, Internal Evaluation marks, End Semester Examination marks etc., are managed by online Examination System Web Portal of Anna University, Chennai. Both Staff and students can login with their credentials in the web portal to do any exam related activity. However the tests conducted for content beyond syllabus is maintained digitally by the faculty members in the Department.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mr.P.Dhamodharan and Mohan	International Conference	SRM Institute of Technology, Chennai	3000
2019	Mr.P.Sivakumar	How to write review paper	Anna University , Chennai	1000
2020	Mr.P.Sivakumar	Training at NIT-Simens COE Testing	NIT,Trichy	1000
2020	Dr.C.Dhavamani and	IIC Innovation Ambassador Progarmme	AICTE and MHRD Innovation Cel	5000
2019	Mr.Srinivasa Perumal Mr. Senthil Kumaran	CATIA 3DX experience	Harita Tech Serv , Coimbatore	12000
2019	Dr.C.Dhavamani Dr.K.Vidhya	Academic Excellence - Successful Autonomous through NAAC 'A/A' Grade Or NBA Accreditation	ASSAAN Educare Pvt Ltd	18000
2019	Dr.C.Dhavamani Mr.P.Sivakumar	Meeting with Mahindra Research	Mahindra Research Development	15000

		Development		
2019	Dr.C.Dhavamani	Olirum Uzhavum	CII at Varalakshmi Hall, Salem	25000
2019	Dr.K.Vidhya	Nil	ASCE Students Chapter	3000
2019	Dr.K.Vidhya	Nil	ASCE Membership	13000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Workshop on CO and PO, PSOs and PEOs mapping	Nil	03/02/2020	14/02/2020	153	Nil
2019	Outcome Based Education, Blooms Taxonomy, Higher Order thinking	Nil	20/11/2019	22/11/2019	145	Nil
2019	Teaching Innovations Methods	Nil	12/12/2019	13/12/2019	125	Nil
2020	Research Proposal writing and IPR	Nil	09/01/2020	10/01/2020	136	Nil
2020	Startups, Innovations and Entrepreneur	Nil	24/01/2020	25/01/2020	152	Nil
2020	AICTE - AQIS Sponsored Short Term Training Program on Low Carbon Energy Building	Nil	27/07/2020	01/08/2020	133	Nil

2019	Nil	Fire Safety and rescue Operations	27/08/2019	Nil	Nil	25
2020	Nil	Road Safety	25/02/2020	Nil	Nil	35
2020	Nil	Workshop on MS Office	07/03/2020	Nil	Nil	45
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
ICT Tools for Teaching, Learning Process and Institute	1	10/08/2020	21/08/2020	14
Fiber Reinforced Concrete and its application	1	18/11/2019	22/11/2019	5
Advancements in Concrete Technology	2	12/05/2020	16/05/2020	5
Sustainability Aspects and Recent Trends in Civil Engineering - The Future Scenario	2	14/07/2020	18/07/2020	5
Artificial Intelligence	2	08/06/2020	12/06/2020	5
Cyber Security Techniques and Tools	2	15/06/2020	19/06/2020	5
Learning Experience	1	16/06/2020	29/06/2020	14
Blockchain	1	22/06/2020	26/06/2020	5
Cyber Security	1	27/06/2020	01/07/2020	6
Digital Teaching Techniques	2	29/06/2020	04/07/2020	7

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
12	12	2	2

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Free transport facilities. Waiver of fees for teachers' children in the Institution. Medical leave and Maternity leave. Supporting for education of the children of the teachers in the group institutions. Marriage gifts with the sanction of one week leave Gifts and mementoes during Teachers' Day celebrations Sponsoring for attending conference, workshops and FDPs Incentive for publication of papers / research articles Reward for producing University Ranks Cash awards for academic excellence / 100 pass Special Study Leave (SSL) to pursue higher education Faculty Retreat. Subsidized canteen fares Group Insurance Online NPTEL fees reimbursement</p>	<p>Educational support to the children of the staff. Marriage gifts with the sanction of one week leave. Granting medical leave / maternity leave. Free transport facilities. Special Study Leave (SSL) for higher studies. Incentive for attending orientation programmes, workshops and conferences. Gifts during Teachers' Day celebrations. Faculty Retreat. Incentive for dress materials Incentive for vehicle utilization or transport allowance Incentive for dress materials for housekeeping staff. Subsidised canteen fare Group Insurance</p>	<p>Government Scholarships Management Scholarships Free Transport facilities to SC/ST Students Free food Hostel facilities to SC/ST Students Cash awards for University Rank Holders, Semester Toppers Cash awards for good performers in sports Culturals</p>

6.4 – Financial Management and Resource Mobilization

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

Mahendra Educational Trust has qualified Chartered Accountants (internal Auditors) to supervise the Internal Audit Functions and ensure that all the procedures and guidelines set by the Board of Governance and Management are strictly adhered to while carrying out the transactions. The Chartered Accountants also ensure that the recording of transactions are carried out in the ERP and participate in the purchase procedure/approval of purchases initiated by the respective HOD/ Dean of the faculty. Apart from the above Mahendra Educational Trust has two External Internal Auditors who represent very reputed practicing Chartered Accountants Firm for carrying out the Procedural, Transaction and compliance Audit and submit their reports. They submit either Quarterly or Half Yearly Audit reports commenting on their observations and highlighting the corrective measures that need to be taken to ensure proper financial transactions and management.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the

year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Non government Organizations	3887840	consultancy works
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6.4.3 – Total corpus fund generated

240430787

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	IQAC	Yes	IQAC
Administrative	Yes	IQAC	Yes	IQAC

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

<ul style="list-style-type: none"> • After completing the internal exams, progress reports are sent to the parents and informed to attend the meeting. • During the ParentTeacher Meetings the parents are informed of the academic progress of their wards and necessary remedial measures are suggested. • Feedback is obtained from the parents in a structured format • Some of their useful suggestions have been implemented. To mention a few - improved facilities at the hostel, computer training to students pursuing non computer courses, skill oriented programmes, Programmes to improve language proficiency of students etc.

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

<ul style="list-style-type: none"> • A week of Orientation Programs was conducted. • Practicing office tools for supporting staff members organised by department of CSE from 22nd April to 24th April 2019 (3 days) • Computer Skill training • Communication skills training • Hands on training have been given to the Supporting staff to handle the instruments and first aid in the Laboratory under College Scheme. • First Aid Programme • Fire and safety measures
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6.5.4 – Post Accreditation initiative(s) (mention at least three)

<p>Some New Courses have been introduced Aerospace Engineering , Cyber Security and Artificial Intelligence Engineering Established Centre of Excellence in Artificial Intelligence and Machine Learning Administrative, Staff attendance and Student information system of electronic database have been initiated.</p> <p>Introduction of MTRACE (tie up with SAILAS academy) training classes for attending competitive examinations and Conduction of Talent Recharging Summer camp for students</p>
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6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	IQAC External Audit	08/06/2019	08/06/2019	15/06/2019	240
2019	CII - Olirum Uzhavum	22/06/2019	22/06/2019	23/06/2019	120
2019	YI awareness	07/08/2019	07/08/2019	07/08/2019	142
2019	Successful Autonomous through NAAC Or NBA Accreditation	28/09/2019	28/09/2019	28/09/2019	4
2019	M-First	09/10/2019	09/10/2019	09/10/2019	625
2019	Faculty Enrichment Programme Series (FEPS) Orientation	19/10/2019	19/10/2019	16/11/2019	240
2019	First year Induction Programme	06/08/2019	06/08/2019	19/08/2019	835
2019	Internal Academic auditing	05/11/2019	05/11/2019	30/11/2019	240
2019	Mahendra Academy for Technical Training and Placement	05/11/2019	05/11/2019	15/11/2019	925

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Women in Cyber Space	30/08/2019	Nil	250	Nil
Yoga Day	26/02/2019	Nil	75	Nil
Youth Empowerment Yoga Practice	08/08/2019	10/08/2019	210	Nil
Womens Day Celebration	09/03/2020	Nil	225	Nil

National Nutrients Fest	25/09/2019	Nil	160	Nil
Workshop on Women-power	16/06/2020	18/06/2020	98	Nil
Yoga and Meditation	09/09/2019	12/09/2019	Nil	450
General Gardening	12/08/2019	Nil	Nil	375
To Built Mentor	13/08/2020	Nil	Nil	525
Pshychological Counselling	14/08/2019	18/08/2019	Nil	850

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

The college has taken steps to keep the college campus environment-friendly. For Energy conservation, transparent windows in buildings facilitate the maximum utilization of natural light source in all the rooms. The traditional lighting systems are replaced with CFL, LED lighting system. Students, Faculty and Staff members always ensure that the electrical equipment and lights are "Switched off" when not in use. Solar energy is used in the parking areas, lights on roads in dark and other areas. The college has bio-methanation reactor to minimize the LPG usage. There is a Proposal for erecting a windmill power generator in our campus through student's project. For Water harvesting the campus has adequate facilities to collect the rain water to improve the ground water level. Efforts for carbon neutrality are taken by the college through adequate arrangements for the parking of vehicles. Emission test certificates are made mandatory for the vehicles in the campus. Cigarettes and tobacco products are strictly banned within 100 meters of the campus. Majority of the students are utilizing the college transportation facilities to minimize the individual transportation. The college has green campus with many trees. Plantation programmes are regularly organized by NSS to inculcate amongst the students the values of environmental-care and sustainability for green and clean campus. Our Institution is part of the "Green Kalam Project" and to create green campus, many saplings have been planted. Effluent treatment and recycling plant is installed to treat sewage and waste water on the campus.

Whether environmental audit was conducted? Though there is no formal green audit system, the students, faculty and staff members are encouraged by the NSS unit to keep the campus always green by planting more trees periodically. All buildings of the institution are designed by the architect in considering the maximum utilization of natural resources such as Light, Air for good ventilation and energy conservation.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	Yes	Nil
Scribes for examination	Yes	Nil

Rest Rooms	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Nil	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	2	2	24/01/2020	1	Workshop on Airshow	To create awareness Science Exploration	35
2020	3	3	31/01/2020	1	Seed Ball distribution	To avoid Global warming	25
2020	2	2	11/01/2020	1	Rainwater Harvesting	To Create the awareness about rainwater harvesting	40
2020	4	4	04/01/2020	1	Cyber Security Awareness in govt School	To create Safety Awareness	25
2020	5	5	24/01/2020	1	Plastic Free Zone	Educate the people about Banned Plastic	30
2020	3	3	01/02/2020	1	Health and Hygiene , Awareness Program (Govt. Elementary school,	To improve the physical Health	25

2020	2	2	08/02/2020	1	Electrical Safety Electrical Safety	To create Safety in Home Appliances	20
2020	4	4	15/02/2020	1	Plant stress in orphanage Home	To make green environment	25
2020	1	1	11/01/2020	1	Blood Donation	To save lifes	40

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Professional Ethics Handbook	10/01/2019	<p>Professional Ethics Handbook 10/01/2019 1.) Duties and responsibilities of PROFESSOR / DEAN/HOD. 1. Providing leadership to both undergraduates and postgraduates in relevant field of specialization. 2. Research and research guidance. 3. Consultancy services. 4. Teaching, including laboratory development writing of books monograph. 5. Evaluations of tutorials, assignments, journals, answer papers. 6. Interaction with industry. 7. Continuing education activities. 8. Students counseling. 9. Interaction with other institutions, Universities at state, national and international levels. 10. Organizing seminars, workshops, summer schools and winter schools for teachers and professionals. 11. Publishing papers in national and international journals. 12. Fellowship of professionals' bodies. 13. Industrial liaisoning to promote summer and final placements. 14. Review of academic</p>

activities of the department periodically.

15. Maintenance of dead stock, semi consumable, consumable registers with the help of lab incharge

16. To prepare display notices, mark sheets attendance sheets etc. pertaining to the students of the department.

17. To send attendance records, letters regarding attendance, discipline and other activities with the help of class teachers.

18. To organize for accreditation and make presentations to the visiting expert terms.

19. To undertake and implement consultancy projects to identify various funding agencies and harness funds for the development of the department/institutions.

20. Any other duties assigned by the Principal from time to time.

21. Shall conduct him/her befitting the noble profession of teaching by desisting himself/herself his colleagues from the temptation of private tuition and indulging in unfair practices.

22. Organize parents meet/HR meets in association with

T P 2.) JOB

RESPOSIBILITIES OF ASSOCIATE

PROFESSOR/ASSISTNAT

PROFESSOR 1. Teaching and ensuring attendance of students as per University norms. 2. Planning and implementation of instructions received from Head/principal. 3. Student's assessment and evaluation. 4. Developing resource material for teaching and learning. 5. Extension of services to

the industry and community. 6. Continuing education activities. 7. Co-curricular and extra-curricular activities. 8. Students counseling/ mentoring scheme implementation. 9. R D work on industrial problems consultancy. 10. Liaison with parents and community. 11. Publication of research papers, at least one in a semester. 12. Participate at least in one seminar/conference/workshop in an academic year. 13. Participation in departmental administration.(Lab Management) 14. Shall become member of at least two relevant professional bodies at his/her own cost. 15. Contribute to the activities sustaining accreditation of the institute. 16. Assist in summer and final placement activities. 17. Examination work pertaining to College University such as organizing supervision and assessment etc. 18. Arrangement of remedial classes. 19. Generation of resources from various funding agencies. 20. Upgrading of qualifications. 21. Writing of books monographs. 22. Any other duties assigned by the Management and Principal from time to time. 4.)

JOB RESPONSIBILITIES OF LAB. INSTRUCTOR. 1. To draw the lab schedules for the students and display on the board. 2. To record and maintain their attendance of the students. 3. To ensure discipline of the students in the laboratory. 4. To assist

students in practicals in the laboratory. 5. To conduct lab examination as and when required. 6. To assist the system administrator to maintain the network and the computers. 7. To maintain database of marks of various exams and assist faculty member in compilation submission of term work, preparation of marks lists. 8. To assist the faculty member in conducting lab sessions of their students. 9. To maintain the dead stock /consumable/semi consumable registers of respective laboratories. 10. To maintain the continuous assessment records of students in respective term work. 11. Maintenance of all instruments/equipments in the respective laboratories. 12. To carry out any other duties assigned by the faculty member/Professor/Head/Principal. 13. To take care of day to day cleanliness see that the laboratories are kept in presentable form experiment setup and stacking the instruments at their proper stacking places. 14. To check at least once in a week working of instruments equipments under laboratory. 15. To prepare the requirement of consumables for the lab place indent for the same. 5.) JOB RESPONSIBILITIES OF PLACEMENT OFFICER. 1. Prepare a data bank of potential industries for placements and keep updating. 2. Initiate correspondence with industries and organize recruitment process for

placements. 3. Organize HR meet to strengthen rapport with corporate world. 4. Organize printing of placement Brochures/soft copies of information regarding student's placements. 5. Obtain feedback from industries regarding strength and weaknesses of students who have been placed finally. 6. Obtain feedback from industries regarding performance of placed students (one year or more) and obtain inputs additional training/grooming of current students at least for their year. 7. Grooming the students for placements by organizing soft skill trainings. 8. Counseling of students regarding emerging areas of job opportunities. 9. Organize talks by experts to motivate students to seek job opportunities in emerging areas. 10. Give feedback to the faculty about strength weaknesses of students to enable them to initiate appropriate grooming activities. 11. To pay regular visit to industries establish close repo with placement/consultancies /R D/training establishment of linkages under guidance of Principal. 12. Any other duties assigned by the Principal from time to time.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Awareness Programme on Professional Ethics and Human Values	31/07/2019	Nil	112
Plastic Free Zone	24/01/2020	Nil	30

Health and Hygiene , Awarcness Progran (Govt. Elernetary school,	01/02/2020	Nil	25
Blood Donation	11/01/2020	Nil	40
Road Safety Awareness Programme	15/02/2020	Nil	35
World environmental day	05/06/2019	Nil	250
International yoga day	21/06/2019	Nil	275
World aids day	01/12/2019	Nil	150
NSS Special camp	05/02/2020	11/02/2020	25
Corana Awarness	12/03/2020	Nil	150
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. The NSS unit of our College regularly organizes Plantation programme to make the campus more eco-friendly. Trees reduce carbon dioxide, the main green house gas that contributes to global warming. Trees increase oxygen level in environment, and make the campus airy. 2. The Department of Mechatronics in association with National Girls Hr. Sec. School, Rasipuram organized an awareness programme on "Tree Plantation" on 23rd February 2019 at National Girls Hr. Sec. School Ground. 3. NSS unit also organized Plastic free awareness rally to make the environment clean and sustainable. In addition to students many public participated on their own interest in the plastic free awareness rally around the village. 4. The college conducted clean survey analysis for finding dengue free campus during the workshop on Challenges of Dengue and its Analysis using Data Analytics Tools by Mr.K.Kalvikarasan, Entomologist, Namakkal District. 2. The aim of the program was to assess the level of knowledge and practice of dengue control amongst the public, and to explore the factors affecting practice of dengue control in the rural area. An awareness program was conducted in a semiurban town of Mallasamudram, with the help of our II year students and provided Nilavembu Kashayam for more than 60 families and acknowledged as "Dengue free House". 5. Awareness created among the public against unnecessary honking, working with the Govt. authorities to enforce the prevailing rules and also bring about new regulation based on the model of other "Honk Free Cities" in the world. This campaign against unnecessary honking, spreading social awareness regarding noise pollution and initiating action at the community level to reduce the growing menace of vehicle honking. The vehicle users should make a conscious decision not to blare the horn, except when it is really necessary.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

PRACTICE -I Digital Learning - Innovation in Teaching - Learning Methodology -
OBJECTIVES OF THE PRACTICE:

- To develop effective self-directed learning skills.
- To make the teaching learning process more interesting and to improve student performance in their academics.
- To give hands-on experience and in-depth knowledge by using lecture videos to the students from their first year.
- To sharpen critical thinking skills, which are the basis for the development of analytic reasoning.
- To use the advanced technology in the teaching learning process.
- To post assignments, questions, readings, and grades as

well as ways to interact with the students through forums or chats. THE CONTEXT: Students are changing, and those once effective teaching methods are becoming stale. Faculty, should find a new way to engage students. Hence, Online classes is evolved to provide theory knowledge and hands-on experience to all the students with an appropriate schedule. This supplements teaching and learning in traditional classroom environments as they can provide new opportunities for enriching existing curriculum through creative, authentic and/or flexible, nonlinear learning experiences. It provides space for participation, collaboration, distribution, dispersion of expertise, and relatedness. It helps in share and search for knowledge which contributes to informal learning. One of the biggest challenges in online education is the lack of interaction between students where as google class room try to provide more opportunities for communication. Online course programs like Coursera, NPTEL helps the students to enrich their knowledge. THE PRACTICE: This programme is designed in such a way that, lecture will be taken through PowerPoint / video presentation by professors through google meet. Faculties post assignments, questions, relevant articles, research and current knowledge and many more. The link will be sent to each student by e-mail and WhatsApp.

The students access the virtual classroom on a very regular basis which encourages outside the classroom learning. For online courses, there will be a lecture video which will be taken by well renowned professors. After completing the course, exam will be conducted and the person who score higher marks will be given certificates and the mentor will also be getting the certificate .

EVIDENCE OF SUCCESS: Reports are generated through the exams conducted. Multiple tests are conducted and the progress of the students are tracked with the help of these reports. The improvement of the students can be traced and if there are no improvements, the students are helped in the areas that they are weak at, as per the report. This enables the students to follow a planned and defined path to achieve their goals . The person who is performing well in online course will be appreciated and rewarded by the college. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: The major resource required is experienced faculty members, good content to interact students, updated systems with good internet connectivity. Students are provided with license for doing online course at free of cost. Students should have proper internet connection to attend the sessions without interruption. PRACTICE -II TITLE OF THE PRACTICE: -

Plastic Free Green Campus OBJECTIVES OF THE PRACTICE: • To inculcate Environmental awareness in students • To make Environmental consciousness as part the daily life • To bring a change in attitude towards environmental protection • To make the campus plastic free, green • Effective use of waste management THE CONTEXT: For the past few decades the world has realised the importance of environmental protection and we are witnessing a paradigm shift in almost all discourses towards a better, less polluted, green environment as the pressing need of the hour. Environmental deterioration has reached such an alarming proportion that the only solution is a fundamental shift in attitude. This is where the role of students as the future citizens and the ambassadors of change come in handy. Our college wanted to tap this potential of students and create in them heightened awareness for environmental protection. THE PRACTICE: A green protocol is implemented in the campus and Green protocol statement is fixed in all the class rooms and other relevant places. Plastic is banned in the campus and steel vessels, glasses, green leaves etc are used. Use of plastic water bottles is not completely banned but reduced to the maximum extent. Effective waste management system is also implemented by collecting solid waste, bio waste and electronic waste separately. EVIDENCE OF SUCCESS: Campus has become cleaner, litre free and plastic free. There is heightened awareness in students, which is evident in their participation in a number of extension activities related to environment like Tree Plantation, Cleaning activities under NSS, activities under Eco and swachh Bharath club etc. PROBLEMS ENCOUNTERED AND RESOURCES REQUIRED: Additional cost needed for the

implementation of green protocol caused initial problems. Though everyone is aware of the environmental crisis most of them consider it as a distant phenomenon. So implementation of the programme was little bit difficult in the beginning but awareness classes and activities were conducted thru Eco and swatch Bharath club to create more awareness among student community.

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

<http://www.mahendra.info/igac.php>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of our College is to be an internationally recognized institute for engineering education and research with ethical values. So the primary objective of the Institution is the pursuit of Academic Excellence and Placements. The technical knowledge gained by the students is complimented by imbibing interpersonal skills and spirit of entrepreneurship that makes them competitive enough to face the global challenges and emerge as achievers. To achieve this, the College has focused on the distinctive area of establishing various Centres of Excellence in collaboration with prominent industries, through which students achieve their academic excellence to meet industrial standards. Our College has established TVS Harita Techserve Research Center for New Product Development and Manufacturing Technologies, which was inaugurated at MEC campus on 11th March 2014. The main objective is to create a Pool of Students with Strong Industry Ready Talent, undergoing Engineering. This has helped to bridge the gap between industry requirements and skills taught in academic course and greatly enabled to groom Engineers who are highly conversant with Design processes involving need finding, ethnographic field work, rapid prototyping and testing. So far more than 40 students were placed in reputed companies like VOLVO, Atlas Copco, SCL, Honey well, TVS motors, based on this Tie-up. Similarly the Centre of Excellence in Formwork Engineering in collaboration with LT Ltd., was established on 9th November 2017 at Mahendra Engineering College. From this Centre of Excellence students gain valuable information on various formwork systems, tools and components used in formwork, different bonds of brick masonry and reinforcement details of various elements. Through the Centre of Excellence we provide training to masons, mazdoor and engineers about various formwork systems and new technologies used as recent trends. We also conduct several certified courses in formwork engineering inviting participants from various institutions. MEC-NI LabVIEW Academy jointly with National Instruments under their Planet NI (Nurturing Innovation) framework which strives to increase the employability of Indian engineering graduates by creating Centre of Excellence in Engineering Colleges and Universities which will provide cost effective access to world class latest technology through classroom teaching-learning. Escorts Training and Development Center (ETDC) is established in February 2017 at our College to organise technical programs such as Internship, Training, Project works and Research for the Agriculture Engineering students. A Centre of Excellence in Artificial Intelligence and Machine Learning is established at our College in collaboration with Intel, Next Wealth and Happiest Minds in June 2019. This CoE in AI/ML CoE offers courses on Artificial Intelligence, Python Programming and Image processing for Computer vision. Around 40 Students and 5 faculty members are trained by Next Wealth Private Limited, Happiest Minds, and Mind Tree. Intel donated 45 Parallel Studio XE Cluster edition licence software, each worth of USD 3200, for learning. Some of the students are placed in Happiest Minds, Mind tree and other companies that use AI and app development.

Provide the weblink of the institution

<http://www.mahendra.info/>

8.Future Plans of Actions for Next Academic Year

Future plan • To tieup with premier academic institutions and local industries for enhanced exposure. • To organize workshops and conferences by collaborating with Industries. • The college has planned to build Alumni centres in important cities in India and Abroad. • Initiate to launch programs for aptitude/Psychological technical test for PG/UG final year students. This may include personality development workshops, follows up session and group discussion, group counselling. • To establish Virtual laboratories for different practical labs. • To seek approvals for additional professional courses so as to meet the demands of changing industrial scenario. • To establish smart classrooms in all departments to take teaching learning process to new heights . • To promote our institution in NIRF and ARIIA raking. • To Celebrate Silver Jubilee Celebrations • To conduct International Conference • To collaborate more foreign universities • To establish centre of excellence for all departments • To start minimum 10 start ups through incubation centres. • To renew NAAC cycle 2. • To plan for NBA accreditation for 5 departments.