



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		MAHENDRA ENGINEERING COLLEGE (AUTONOMOUS)
Name of the head of the Institution		R V MAHENDRA GOWDA
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		4288-288610
Mobile no.		9994227916
Registered Email		principal@mahendra.info
Alternate Email		info@mahendrainstitutions.com
Address		Mahendra Engineering College Salem- Tiruchengode Highways Mallasamudram
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	C T SIVAKUMAR																		
Phone no/Alternate Phone no.	04288288599																		
Mobile no.	9442130662																		
Registered Email	sivakumar@mahendra.org																		
Alternate Email	hodaero@mahendra.info																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	http://www.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/downloads																		
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>3.06</td> <td>2014</td> <td>10-Jul-2014</td> <td>09-Jul-2019</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.06	2014	10-Jul-2014	09-Jul-2019
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.06	2014	10-Jul-2014	09-Jul-2019														
6. Date of Establishment of IQAC	01-Nov-2012																		
7. Internal Quality Assurance System																			
Quality initiatives by IQAC during the year for promoting quality culture																			
Item /Title of the quality initiative by IQAC	Date & Duration			Number of participants/ beneficiaries															
Intellectual Property Rights and Cyber Security	22-Mar-2019 1			6															

Faculty Evaluation	04-Apr-2019 16	198
Tips for writing Research proposal	10-Apr-2019 1	70
Siemen Center of Excellence in Manufacturing	07-May-2019 1	9
Choose your career by choice not by chance	21-Dec-2018 1	75
New Product Development Conference 2018 Indian Institute of Technology [IIT]-Madras	22-Dec-2018 2	4
FM Radio-100.5 Isai Pattimandram	10-Jan-2019 1	500
Information on Industrial Robotics	13-Feb-2019 2	25
SES assignment	28-Jan-2019 15	500
SES assignment	04-Feb-2019 15	500
SIEMENS India	15-Feb-2019 1	25
IQAC meeting	09-Mar-2019 1	15
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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
aeronautical Engineering	Students Project	TNSCST	2018 1	7500
Agriculture Engineering	Students Project	TNSCST	2018 1	7500
Mechanical Engineering	SEMINAR	CSIR	2018 1	30000
Mechanical Engineering	STUDENTS PROJECT	TNSCST	2018 1	20000
Mechanical Engineering	FDP	ANNA UNIVERSITY	2018 1	30000
Computer Science and Engineering	Seminar	ICMR	2018 1	40000
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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)	
ACHIEVED AAA RANKING IN CAREER 360 RANKING SURVEY 2018 ACHIEVED AAA RATING IN DIGITAL LEARNING ENGINEERING RANKING SURVEY 2018 ACCREDITED BY DATA QUEST CMR BEST TECHNICAL SCHOOL SURVEY 2018 ACCREDITED A++ IN THE PRESTIGIOUS CHRONICLE INDIA SURVEY	
BEST EDUCATOR AWARD 2018 FROM ICT ACADEMY. RECEIVED AWARD FROM THE WEEK HANSA SURVEY RECEIVED AWARD FROM TIMES ENGINEERING RANKING SURVEY 2018	
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 I WA	
PARTICIPATED IN NIRF 2019 . OUR INSTITUTION OBTAINED 27 MARKS. PARTICIPATED IN ATAL RANKING OF INSTITUTIONS ON INNOVATIONS ACHIEVEMENTS ARIIA 2019 QUALITY ENHANCEMENT PROGRAMMES ORGANIZED RECEIVED 2ND STAR IN INSTITUTIONS INNOVATION COUNCIL IIC	
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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year	
Plan of Action	Achivements/Outcomes
Admission	Target Achieved

Result	UG : 91
Co and Extra Curricular Activities : Sports	Technical Awards : 35 Prizes in various Technical Events : 340 Sports awards : 101 NPTEL Certificates : 508
Guest Lectures	663
Paper Presentations	71
Publications	83 Journal paper were published
No of Seminars / Workshops conducted :	663 seminars and workshops were conducted
Research Enrolment	12 Nos
No of scholars Completed Research Programme	13 Nos
Students Support Service	Soft Skill Training conducted for all students
Placement	No of student placed : 683
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Body	15-Dec-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	03-May-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2019
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Date of Submission	10-Jan-2019
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17. Does the Institution have Management Information System ?	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Students module Faculty module Department activities Admission module Examination module Accounts module
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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
ME	5081	CAD	15/03/2019
ME	5082	Manufacturing Engineering	15/03/2019
MBA	P3001	MBA	05/03/2019
MCA	P4001	MCA	01/03/2019
BE	1011	AERO	01/03/2019
BE	1021	CIVIL	20/02/2019
BE	1031	CSE	16/03/2019
BE	1041	ECE	23/02/2019
BE	1051	EEE	06/03/2019
BE	1061	EIE	15/03/2019
BE	1081	MECH	15/03/2019
BE	1091	MAE	14/03/2019
BE	1101	MCT	06/03/2019
BE	1111	AGRI	23/02/2019
BE	2071	IT	09/03/2019
ME	5021	Structural Engineering	20/02/2019
ME	5022	Construction Engineering and Management	20/02/2019
ME	5032	Computer Science Engineering	16/03/2019
ME	5041	Communication Systems	23/02/2019
ME	5051	Control system	06/03/2019

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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	AERO	01/03/2019	17AE15805 Entrepreneurship Development	01/03/2019
BE	AERO	01/03/2019	17AE14505 Managerial Skills and Quality Management	01/03/2019
MCA	MCA	14/03/2019	19MCA21308 communication skills	14/03/2019
MCA	MCA	14/03/2019	19MCA22406	14/03/2019

			Big Data Analytics	
BE	CIVIL	01/03/2019	17CE15707	01/03/2019
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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
BE	Machine Learning	14/03/2019
BE	Mobile Application Development Laboratory	14/03/2019
BE	Python Programming Laboratory	14/03/2019
BE	Web of Things	06/03/2019
BE	Automotive Electronics	06/03/2019
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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
BE	Aeronautical Engineering	12/03/2018
BE	Computer Science and Engineering	20/02/2018
BE	IT	20/03/2018
BE	Electrical and Electronics Engineering	20/03/2018
BE	Civil Engineering	20/02/2018

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
Industrial CoTeaching CATIA V6	20/06/2018	63
Introduction to IoT	25/06/2018	36
Data Science and Bigdata Analytics	12/06/2018	50
Sales Force Plateform APP Builders	10/12/2018	80
Employ ability Skill Training	18/01/2019	45
form work Engineering	15/02/2019	22
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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
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[View File](#)**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
<ul style="list-style-type: none"> • The institution has established a system of collecting structured feedback from the students in 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 end of the semester before the examinations. • One of the regular classes is earmarked for the feedback collection. • The feedback is collected by the members of Internal Quality Assurance Cell (IQAC) coordinator and department IQAC member. • After collecting the feedback, it is evaluated by common statistical method. • The feedback analysis covers the faculty promptness to the classes, coverage of syllabus, preparing the students for examination, innovative practices followed by the faculty, evaluation procedure and interaction with students. • The complete report for the feedback of all the courses will be submitted to the principal. The Principal and Head of Department review the report and same is communicated to the respective faculty members for their improvement in future.

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		1140	969	969
ME		284	200	200
BE	aero	60	59	59
BE	agri	60	60	60
BE	civil	180	88	88
BE	mech	180	175	175
BE	MAE	60	36	36
BE	MCT	60	60	60
BE	CSE	120	119	119
BE	ECE	120	120	120
BE	EEE	120	108	108
BE	EIE	60	25	25
BE	IT	120	119	119

ME	CAD	25	16	16
ME	MANufacturing Engineering	24	22	22
ME	Structural	24	22	22
ME	Construction Engineering	24	22	22
ME	CSE	18	16	16
ME	Communication	25	10	10
ME	control system	24	21	21
MCA	MCA	60	27	27
MBA	MBA	60	41	41
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	969	200	241	20	15

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
276	276	40	40	20	2
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

- Yes , Each faculty member is allotted with 10 students for mentoring them (from 1st year to final year) • Students performance in terms of Academic, cocurricular, extracurricular activities and related issues are discussed and counseling is offered for improvement. • Exclusive Antiragging cell is functioning to ensure students safety. • Through Women Empowerment Cell(WEC) variety of activities and awareness programs are conducted to enhance the confident level of students. • Disciplinary issues are dealt by the panel of councilors , counseling is offered according to the intensity of issues.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3680	276	1 : 14

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

26	26	0	0	6
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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
2018	Dr . P . Ramya	Professor	Outstanding Women in Engineering Venus International Women Awards (VIWA)
2018	K.Rajeswari	Assistant Professor	Top Performance Mentors Award NPTEL Course
2018	A.Umamaheswari	Assistant Professor	Best Library User Second Prize in Mahendra Engineering College
2019	A.Umamaheswari	Assistant Professor	Appreciation Award Fostering an eco System bridge Government Academic for India Innovation Challenge Design Contest
2018	Dr . S . Umamaheswari	Professor	Innovative Researcher Dedicated Professor Award Global Innovative Educationist Electrical Engineering, University Technology MARA, Malaysia, on 21st October 2018
2018	Dr . S . Sumathi	Professor	Best Outstanding Researcher Award International Institute of Organized Research
2018	Dr . K . Vidhya	Professor	Achievement award for Best academician Government of India, Planning Commission, Vishwakarma Award 2019, New Delhi 6.3.2019
2018	Dr . K . Vidhya	Professor	Best women Engineer

			award 2018 Institute of engineers (IEI), Salem on 15.9.2018.
2018	Dr.K.Vidhya	Professor	Innovative Researcher Dedicated Academician Award Innovative Scientific Research Professional Malaysia In Association with Faculty of Electrical Engineering, University Technology MARA, Malaysia
2018	Dr.C.T.Sivakumar	Professor	Innovative Research Technologies and dedicated teaching professional award University of Mara, Malaysia.
2018	Dr.M.Kannan	Professor	Best Campus Leader Sales force
2018	Dr.S.Asokumar	Professor	Noble Researcher of the year IJRULA, Malaysia
2018	Dr.T.Jesudas	Professor	Excellent Research Technologist Innovative Scientific Research Professional Malaysia
2018	Mr.D.Prabhakaran	Assistant Professor	Innovative Research Dedicated Teaching Professional Award Innovative Scientific Research Professional Malaysia
2018	Mr.J.Dineshkumar	Assistant Professor	Innovative Scientific Research (Mechanical Engg.,) Innovative Scientific Research Professional Malaysia
2018	Mr.B.Lakshmikanth	Assistant Professor	Innovative Research Dedicated Teaching Professional Award Innovative Scientific Research

			Professional Malaysia
2018	Dr.C.Dhavamani	Professor	Best coordinator award Rotary club of Salem
2018	Dr.C.Dhavamani	Professor	Innovative Researcher Dedicated Academician Award Innovative Scientific Research Professional Malaysia In Association with Faculty of Electrical Engineering, University Technology MARA, Malaysia
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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
BE	1011, 1111, 1021, 1081, 1091, 1101, 1031, 1041, 1051, 1061, 2071	3 / II 5/III 7/IV	15/10/2018	14/12/2018
ME	5051, 5082, 5021, 5022, 5032, 5041, 5051	1/I 3/II	15/10/2018	14/12/2018
MCA	P4001	1/I	15/10/2018	14/12/2018
MBA	P3001	1/I	15/10/2018	14/12/2018
BE	1011, 1111, 1021, 1081, 1091, 1101, 1031, 1041, 1051, 1061, 2071	2/II, 6/III, 8/IV	30/04/2019	21/06/2019
ME	5051, 5082, 5021, 5022, 5032, 5041, 5051	2/I, 4/II	30/04/2019	21/06/2019
MCA	P4001	2/I, 4/II	30/04/2019	21/06/2019

MBA	P3001	2/I, 4/II	30/04/2019	21/06/2019
BE	1011, 1111, 1021, 1081, 1091, 1101, 1031, 1041, 1051, 1061, 2071	1/I	28/12/2018	08/02/2019

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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
0	3643	0

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
P5022	ME	Construction Engineering	17	17	100
P5032	ME	CSE	10	10	100
P5041	ME	Communication	7	7	100
P5051	ME	Control System	4	3	75
P4001	MCA	MCA	40	40	100
P3001	MBA	MBA	46	43	93
U1011	BE	Aero	36	29	81
U1111	BE	AGRI	52	50	96
U1021	BE	CIVIL	168	150	89
U1081	BE	MECH	210	176	84
U1091	BE	MAE	46	31	67
U1101	BE	MCTS	57	46	81
U1031	BE	CSE	91	80	88
U1041	BE	ECE	95	88	93
U1051	BE	EEE	112	103	92
U1061	BE	EIE	26	23	88
U2071	BE	IT	30	27	90
P5051	ME	CAD	2	1	50

P5082	ME	MANUFACTURING	15	14	93
P5021	ME	STRUCTURAL	18	18	100
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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)

<https://www.mahendra.info>

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
25 faculties
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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
International	Y.Shantharam	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
International	L.Vijayan	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
International	Dr.T.Jesudas	Excellent Research technologist	29/09/2018	University of MARA, Malasiya
International	D.Prabahakaran	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
International	J.Dineshkumar	Innovative Scientific Research (Mechanical Engg.)	29/09/2018	University of MARA, Malasiya

International	B.Lakshmikanth	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malaysia
National	Dr.M.Kannan	National Cloud Champion Award	31/01/2019	Cloud Literacy
National	Dr.M.Kannan	State Cloud Champion Award	31/01/2019	Cloud Literacy
National	Dr.M.Kannan	Appreciation Award	31/01/2019	SPOC for SWAYAMNPTEL
National	Dr.M.Kannan	Best Campus Leader	31/01/2019	Salesforce
National	K.Rajeswari	Top Performance Mentors Award	31/01/2019	NPTEL Course
National	Dr.V.Shanmugam	Top Performance Mentors Award	25/04/2019	NPTEL Course
National	Dr.P.Saravanan	Top Performance Mentors Award	25/04/2019	NPTEL Course
National	Dr.C.Dhavamani	Best coordinator award	09/02/2019	Rotary Club
National	Best coordinator award	Best coordinator award	09/02/2019	Rotary Club
National	Mr.P.Sivakumar	Best Faculty Advisor award	11/03/2019	IE(I)
National	Dr.K.Vidhya	Best Women Engineer Award	15/09/2018	IE(I)
National	Dr.K.Vidhya	Best Academician	07/03/2019	Planning Commission, Govt. of India
National	Dr.T.Jesudas	Innovative Academician	18/04/2019	Centre for Education Growth and Research
National	Dr. R. Jayakumar	Best Faculty Award in Best Practices and Contribution in the field of Education and Research	18/01/2019	Education and Research
International	Mrs.D.Sindhuja	Dedicated Teaching Professional award	29/09/2018	University of MARA, Malaysia
International	Dr.S.Prema	Nobel Researcher	15/08/2018	IJRULA
International	Dr.P.Ramya	Outstanding	09/03/2019	Venus

		Women in Engineering		International Women Awards
International	Dr.C.Dhavamani	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
International	Dr.K.Vidhya	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
International	Dr.C.T.Sivakumar	Innovative Researcher Dedicated Academician Award	29/09/2018	University of MARA, Malasiya
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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
Minor Projects	2	MSME	26.6	0
Industry sponsored Projects	0.5	Raana Power Solutions Pvt. Ltd.	0.1	0.1
Industry sponsored Projects	0.25	Mangla smart energy solution	2	2
Students Research Projects (Other than compulsory by the University)	1	TNSCST	0.75	0.75
Students Research Projects (Other than compulsory by the University)	1	TNSCST	0.75	0.75
Any Other (Specify)	1	Solar Tracking System	3.5	3.5
Any Other (Specify)	1	Dimensional Structural Design	0.6	0.6
Any Other (Specify)	1	Dimensional Structural Desi	0.85	0.85
Any Other (Specify)	1	G.K. Construction	0.73	0.73

Any Other (Specify)	1	G.K. Construction	0.72	0.72
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

525000

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
Recent trends in Renewable energy sources	AERO	03/07/2018
Advanced sustainable construction and materials	Civil	29/08/2018
SES German professor	AERO	28/01/2019
SES German professor	AERO	04/02/2019
Smart City Accelerator program Internet of Things	ECE	10/07/2018
Raspberry pi with python	ECE	16/08/2018
MATLAB for Engineering application PLC SCADA	EI	18/08/2018
CATIA V6	AERO	16/07/2018
PLC/ SCADA	EEE	28/01/2019
Technologies Used in Automobiles Vehicle	MECH	06/06/2018
Technical Training Series Geometrical Dimensioning and Tolerances	MECH	25/06/2018
Seminar Academic Entrepreneurship :A wide open path	MECH	30/08/2018
3D Printing	MECH	06/03/2019
Career Aspects And Technology	MECH	07/02/2019
Art of Innovation and Be a First Choice of OEM	MECH	27/12/2018
Product Design Engineering Using Fusion 360 MECH	MECH	25/02/2019
Recent trends in Renewable energy sources	AERO	03/07/2018
Basic Concepts Used In Construction Sites	CIVIL	31/01/2019
The Role The Site	CIVIL	05/01/2019

Engineer		
Construction management	CIVIL	06/07/2018
Advanced sustainable construction and materials	CIVIL	29/08/2018
Role of civil engineering in irrigation environmental engineering.	CIVIL	11/09/2018
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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
Research projects	Dr.S.Sumathi	International Institute of Organized Research	28/12/2018	Best Researcher Award
Research projects	Dr.V.Agalya	International Institute of Organized Research	28/12/2018	Best Researcher Award
Best Supporting Instituion	College	IE(I)	13/11/2018	Best College
Innovative Researcher Dedicated Academician Award	Dr.C.Dhavamani	MARA University, Malasiya	05/09/2018	Innovation
Best Student Award	Mr.M.Sathishkumar	ISTE	01/03/2019	Best student
Best Student Award	Mr.K.Sridhar	IE(I)	11/03/2019	Best student
Best Students chapter	College	ICI	18/12/2018	Best College
Innovative Researcher Dedicated Academician Award	Dr.K.Vidhya	MARA University, Malasiya	21/10/2018	Best faculty
Innovative Researcher Dedicated Academician Award	Dr.C.T.Sivakumar	MARA University, Malasiya	21/10/2018	Best faculty
Innovative Researcher Dedicated Academician Award	Y.Shantharam	MARA University, Malasiya	21/10/2018	Best faculty
Innovative Researcher	L.Vijayan	MARA University,	21/10/2018	Best faculty

Dedicated Academician Award		Malasiya		
Best academician	Dr.K.Vidhya	Planning Commission, Govt. of India	07/03/2019	Best academician
Best Student Award	Subaranjana A	ISTE	01/03/2019	Best Student
Best Student Award	C.Mathinagalakmi	IE(I)	11/03/2019	Best Student
Best Student Award	C.Mathinagalakmi	IE(I)	15/09/2019	Best Student
Innovative Motivated Civil Engineering Carrier Development Award	C.Mathinagalakmi	MARA University, Malasiya	21/10/2019	Best Student
Campus Ambassador VIBRANCE 2019	S.Padmapriya	VIT	15/03/2019	Best student
Best Student Award	Ms.A.P.Srividhya	IE(I)	11/03/2019	Best student
World Record Holder Hack (ANDROID) World Biggest International Hands - on Security forensics	Vijay V	Wikitechy and Microsoft Research community Group, Chennai.	14/11/2018	Research Community

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
MSMETBI	MSME	MSME	INNOVATIVE APPROACH OF PERVIOUS CONCRETE	GREEN ENVIRONMENT	19/02/2019
MSMETBI	MSME	MSME	AUTOMATIC POULTARY FEEDER	Agriculture	19/02/2019
MSMETBI	MSME	MSME	PRODUCING OF BIOFUEL PLANT	BIO	12/02/2019

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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
------------------------	-------------------------

ECE	1
MECH	2
EEE	1
MBA	2

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	AGRI	3	0.30
International	IT	4	0.30
International	MCA	4	0.20
International	Chemistry	4	1.25
International	CSE	4	2.10
International	ECE	5	2.40
International	EEE	13	1.00
International	MECH	5	0.50
International	AERO	1	0.30
International	CIVIL	1	0.30
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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
Chemistry	1
CSE	14
ECE	12
EEE	20
MECH	1
AGRI	2
AERO	7
MCA	2
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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 Evoting system using Aadhar card	Published	2019410189	24/05/2019
Horizontal Axis, Cam Guided, Telescopic Blade, Yaw Controlled Wind Mill	Filed	2018410339	21/05/2019
Industrial	Filed	2019410033	22/05/2019

Induction Heater Power Converting System And A Method Thereof			
Intelligent control system for vehicles	Published	2019410202	07/06/2019
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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
Tool Wear Analysis by Acoustic Signal by Peak to Peak Analysis	PRAKASH K., ANDREWS SAMRAJ	International Journal of Mechanical Engineering and Technology	2018	0	Mahendra Engineering College, Namakkal	0
Investigation on electrode vibration behavior of machining characteristics in nanoTiC mixed an EDM machining performance	Boopathi. R., Sundaram. S., Senthilkumar. C. and Prabu. M.	Journal of the Balkan Tribological Association Journal of the Balkan Tribological Association	2018	0	Mahendra Engineering College, Namakkal	0
Fuzzy Rough Subset Method with Region Based Mining to Improve the Retrieval and Ranking of Images over Larger Image Database	K.Venkatasalam, P.Rajendran, M.Thangavel	Multimedia Tools and Applications	2019	44	Department of Computer Science Engineering, Mahendra Engineering College, Namakkal	0

TargetControlled Packet Forecast and Communication in Wireless Multimedia Sensor Networks	S.Ambareesh, A.Neelamadheswari	Advances in Intelligent Systems and computing	2019	4	Associate Professor, Department of Computer Science Engineering, Mahendra Engineering College, Namakkal	0
Review on Optimization of machining operation	Dr.C.Dhavamani	International Journal of Academic Research	2018	3	Mahendra Engineering College, Namakkal	36
Website Quality Assessment Model (WQAM) for Developing Efficient ELearning Framework - A Novel Approach	Dr.R.Jayakumar	International Journal of Engineering and Technology	2018	1	Mahendra Engineering College, Namakkal	12
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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
Improving the Accuracy of Feature Selection in Big Data Mining Using Accelerated Flower Pollination (AFP) Algorithm	K. Venkatasalam, P.Rajendran, M.Thangavel	Journal of Medical Systems	2019	63	0	Department of Computer Science Engineering, Mahendra Engineering College, Namakkal
Fuzzy Rough Subset Method with Region Based Mining to	K. Venkatasalam, P.Rajendran, M.Thangavel	Multimedia Tools and Applications	2019	52	0	Department of Computer Science Engineering, Mahendra Engineering College,

Improve the Retrieval and Ranking of Images over Larger Image Database						Namakkal
TargetControlled Packet Forecast and Communication in Wireless Multimedia Sensor Networks	S.Ambareesh, A.Neela Madheswari	Advances in Intelligent Systems and computing	2019	21	0	Associate Professor, Department of Computer Science Engineering, Mahendra Engineering College, Namakkal
Machine Learning for Denoising in MRI Images Using Hybrid Filters	S.Ponlatha	Journal of Applied Science and Computations	2019	0	0	Associate Professor, ECE, Mahendra Engineering College, Namakkal
Protection of Bio Medical Iris Image Using Watermarking And Cryptography With WPT	R.Mothi	Elsevier	2019	0	0	Asst. Professor, ECE, Mahendra Engineering College, Namakkal
Ultrasound Image Enhancement Based on Fuzzy Membership Function and radon transform	K.Manivel	Asian Journal of Mathematics and Computer Research	2019	0	0	Associate Professor, ECE, Mahendra Engineering College, Namakkal
An Improved Classification System for Brain Tumours Using Wavelet	M.Madheswaran	West Indian Medical Journal	2019	0	0	Principal, ECE, Mahendra Engineering College, Namakkal

Transform and Neural Network						
Segmentation and Boundary Detection of Fetal Kidney Images in Second and Third Trimesters Using KernelBased Fuzzy Clustering	S.Meenakshi M.Suganthi Dr.P.Suresh Kumar	Journal of medical Systems	2019	0	0	Associate Professor, EEE, Mahendra Engineering College, Namakkal
Optimal design of fractional order PID CONTROLLER FOR TIME DELAY SYSTEM	R.sumathi P.Umasankar	International Journal of General systems	2019	0	0	Associate Professor, EEE, Mahendra Engineering College, Namakkal
An Approach for automatic detection of fetal gestational age at the third trimester using kidney length Biparietal diameter	S.Meenakshi M.Suganthi P.Suresh Kumar	Soft Computing	2019	0	0	Associate Professor, EEE, Mahendra Engineering College, Namakkal
Review on Optimization of machining operation	Dr.C.Dhavanmani	International Journal of Academic Research	2018	3	36	Mahendra Engineering College
Website Quality Assessment Model (WQAM) for Developing Efficient ELearning Framework - A Novel Approach	Dr.R.Jayakumar	International Journal of Engineering and Technology	2018	1	121	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	100	171	56	19
Presented papers	28	28	22	8
Resource persons	0	6	18	29

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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)
CSE	Network Infrastructure Design	Avanze Solutions, Salem	170000
CSE	Website Upgradation	AVR Transport, Salem	25000
CSE	Website Designing	Happy Associates, Erode	20000
ECE	Automatic unmanned railway gate operator using fuzzy controller	Raana Power Solutios, Hosur	211500
MECH	Solar Tracking System	DD Engineering Service, Dr. Ramamoorthi Nagar, Karthikeyapuram, Madipakkam, Chennai	350000
CIVIL	Non destructive testing	Ms.Dimension, Coimbatore	60000
CIVIL	Non destructive testing	Ms.Dimension, Coimbatore	85000
CIVIL	SPT and UCC	G.K.Construction	73000
CIVIL	SPT and Concrete mix design	G.K.Construction	72500

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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
Aeronautcal	CATIA Training	TVS Harita	272000	68

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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
NPTEL	MHRD	61	292
TASK	Mahendra Engineering College	62	0
MASTS	Mahendra Engineering College	6	166
INDEL	Mahendra Engineering College	65	2792
HARITACOE	Mahendra Engineering College Harita Tech Serve	5	115
Science Exploration	Mahendra Engineering College	3	6
NCC	Mahendra Engineering College	0	33
NSS	Mahendra Engineering College	1	86
YRC	Mahendra Engineering College Saravana Hospital	7	560
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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
CLEAN INDIA	SWATCH BHARAT	GOVT OF INDIA	4250
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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Non profitable Government Organisations	Confederation of Indian Industry (CII) - Young India salem Chapter	Road safety awareness programme	5	7
Social Awareness	Mahendra Engineering college	Electrical Safety	2	100
Social Awareness	Mahendra Engineering college/ Annantha	Plastic Free Tamil Nadu	5	400

	Vidyalaya matriculation school, Pattanam			
Social Awareness	Mahendra Engineering college	Dengue Awareness	4	50
Swachh Bharat	Mahendra Engineering college	Clean Environment	8	156
RYLA	Rotary Club	Leadership	3	80
Social Awareness	Mahendra Engineering college/ Annantha Vidyalaya matriculation school, Pattanam	Plastic Free Tamil Nadu	5	400
Social Awareness	Mahendra Engineering college	Dengue Awareness	4	50
Swachh Bharat	Mahendra Engineering college	Clean Environment	8	156
Social Activities	Mahendra Engineering college	Tree Plantation	5	30
Swachh Bharat	Mahendra Engineering college	Clean Environment	7	120
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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
MOU AERO	70	Mahendra Engineering College	7
MOU CIVIL	70	Mahendra Engineering College	4
MOU MECH	140	Mahendra Engineering College	7
MOU MCT	70	Mahendra Engineering College	7
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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	Duration From	Duration To	Participant

		with contact details			
MOU	Technical Training	NITSIEMENS Centre of Excellence	03/12/2018	07/12/2018	70
MOU	Refresher Course	Centre of Excellence Formwork Engineering	02/01/2019	05/01/2019	45
MOU	Course	Centre of Excellence Formwork Engineering	12/02/2019	14/02/2019	25
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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
NITSIEMENS Centre of Excellence	07/06/2019	Technical Training	70
Red Hat Academy	25/09/2018	Training	7
Infosys, Chennai	25/01/2018	Foundation Program 5.0	102
DELL EMC ICT Academy	10/01/2018	Data Science and Big data Analytics	50
ICT Academy	10/01/2018	Advanced IT ITES Training	53
Salesforce ICT Academy	10/01/2018	Sales Force Platform APP Builder	82
Red Hat Academy	25/09/2018	Training	7
RX Digi Health Platform Pvt. Ltd., Bengaluru	09/03/2019	Student training and faculty developmental programs	20
CADD Centre , Salem	20/03/2019	Training, Mentoring, FDP And Placement assistance	50
Harita Techserv (P) Limited, Chennai	30/03/2019	The training Program in full for Five(5) months period. Upon completion of the training, Harita may offer the selected students a Placement oppourtunity	50

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
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	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 partially)	Version	Year of automation
Blooms Technology	Fully	JAVA	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	110790	44452540	1054	465856	111844	44918396
Journals	1721	3702056	240	573968	1961	4276024
Others (specify)	8125	1222546	675	699790	8800	1922336
CD & Video	5679	108275	299	0	5978	108275
Others (specify)	3269	0	442	0	3711	0
Others (specify)	10	246240	0	0	10	246240

4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			

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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
No Data Entered/Not Applicable !!!	

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)

? Every department has been provided with computers, LCD and internet system. ? 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
No Data Entered/Not Applicable !!!		
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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 implementation	Number of students enrolled	Agencies involved
Soft skill Development	06/06/2018	3560	Macro Miracle
Remedial Coaching	10/07/2018	450	Institution
Language Lab	06/07/2018	965	Institution
Yoga	10/08/2018	565	Macro Miracle
Meditation	10/10/2018	565	Macro Miracle
Personal Counselling	20/06/2018	650	Institution
Mentoring	13/06/2018	3560	Institution
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	SSCJE	177	177	0	0
2018	UPSE	97	97	0	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
10	10	30

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
Vernalis	5	2			
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	2	Mahendra Engineering College	Aeronautical	Dresden University of Technology	MS

2018	1	Mahendra Engineering College	Aeronautical	Mahendra Engineering College	ME
2019	2	Mahendra Engineering College	Aeronautical	German University	MS
2018	3	Mahendra Engineering College	EEE	Mahendra Engineering College	ME
2018	1	Mahendra Engineering College	EEE	Mahendra Engineering College	MBA
2018	2	Mahendra Engineering College	EEE	Muthayammal Engineering College	ME
2018	3	Mahendra Engineering College	Civil	Mahendra Engineering College	ME
2018	1	Mahendra Engineering College	Civil	Tamilnadu Engineering College	ME
2018	1	Mahendra Engineering College	Civil	SNS Institute of Technology	ME
2018	1	Mahendra Engineering College	Mechanical	PSG College of Technology	ME
2019	1	Mahendra Engineering College	Mechanical	Stuttgart University, German	MS
2018	1	Mahendra Engineering College	Agricultural	Anna University	ME
2019	1	Mahendra Engineering College	Agricultural	AMITY University	MBA
2018	1	Mahendra Engineering College	CSE	Mahendra Engineering College	MBA
2018	1	Mahendra Engineering College	CSE	Vivenkananth a Engineering College	ME
2018	1	Mahendra Engineering College	CSE	Dhirajlal Gandhi College of Technology	ME
2018	1	Mahendra Engineering College	ECE	Mahendra Engineering College	ME

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

Items	Number of students selected/ qualifying
GATE	2
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Ball Badminton(W)	Intramural	36
Badminton(M)	Anna University Zone7	84
Badminton(W)	Anna University Zone7	44
KhoKho (M)	Anna University Zone7	108
Badminton(M)	Intramural	52
Badminton(W)	Intramural	28
Basketball(M)	Intramural	48
Chess(M)	Intramural	19
Football(M)	Intramural	64
Volleyball(M)	Intramural	48
Cricket(M)	Intramural	60
Chess	Intramural	17
Carrom	Intramural	17
Volleyball	Intramural	30
Kabaddi	Intramural	48
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Chief Minister Trophy	National	1	0	161041084	Sushmitha. P
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

In our institution, students are actively participating in extracurricular activities like NSS, NCC and YRC, in continuation of these activities students are participating in several awareness programs, in order to bring some societal awareness programs like rain water harvesting and Ban plastic, etc apart from that students actively in students supporting team in that they organized and participated many club activities Viz Green club, Literature, Societal activities and Kaizen club to improve and to emphasis the field of interest. In that macro miracles club activities students secretary are deputed to well structure and organized the different themes in the club activities.

Students focused on the mentor mentee system of 1:15, along with the students to counsel for the slow learners and to promote the importance of the academic activities and also in career guidance. The outstanding performed students are act as a mentor and other 15 of them will be the mentees to guide them in the proper manner. In the department association activities like workshop, symposium, etc the student's chairman and secretary will be nominated by the students. The key role of the chairman is governing the program committee formation and execution. Majority of the students registered under the various professional societies like IET, ICI, ISTE, EWB, IEEE and ASCE. Through these bodies students attended the programs like workshop, seminar, conference and symposium in the reputed institutions, and also they conducted many technical and non technical competitions, social activities, site visits and exhibits some expose etc. The alumni students working in well esteemed organization will be invited for BOS member for framing the academic curriculum and syllabus and also feedback collected from our students to enhance the present curriculum and syllabus.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni organization plays a prime role in the development scheme for every student in the college. Our institution alumni association is framed as below:
 1. Chairman - Prof. S.Raju, Professor and Head/ Information and Technology
 2. Secretary - Prof. Dr.N.Viswanathan, Professor and Head / Electrical and Electronics Engineering
 3. Treasure Mr.S.Premkumar , Assistant Professor, Computer Science Engineering
 Every year, conducting the General Body Meeting to decide alumini day celebration, alumni meet and alumni mentors etc. Conducting the alumni day in the college to share their views and experience to the students. The Mahendra alumni meeting will be conducted national and international level, in the national level the alumni meet conducted at Bangalore, Coimbatore and 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 conducted at international level, the students working in abroad were gathered and alumni day has been celebrated. The institution is keen of interest on the MAIIS Mahendra Alumni Interactive Lecture Series, in that platform invited talk from the alumni's are delivered lecture to the students to gain the field exposure and technical skills, irrespective of their domains, every department conducting 10 mails programs in a year, and also alumni mentor have been identified and every year 250 students has been tie up with alumni students for their better placements and technical knowledge sharing. The alumni students scheduled the internship and in plant training for the students in the various field of interest.

5.4.2 – No. of registered Alumni:

585

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

2

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)

Response: The institution functions with the method of decentralized governance system. The heads of the department authority of deciding the activities and assigning the responsibilities to the faculty members. The concern department is plan to prepare the timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops ,Innovative and best Practices,IOT course and recommends necessary industrial visits, inplant trainings, internships and signing with MoUs. The head of the Institution is functioning effectively with the culture of participative management which enables the faculty and students to give their feed backs and suggestions for improvement of the Department. All the academic activities are decentralized and decisions are taken based on discussion with class committee meetings, department meetings, HODs' meetings with Principal and HODs meetings with Chairman. The head of the Institution coordinates with the departments, administration and management. Every Academic year extract is prepared at the closure of the previous academic year. Principal will convey all matters with HODs' meeting. HODs, Dean Academics, Training Placement officer, Sr. Librarian and Director of Physical education will attend the meeting. The schedule of the following will be discussed and finalized in accordance with the schedule received from affiliating university ? Reopening for the next academic year • Total no of Working days ? Internal exam days ? End semester exam fees payment dates • Department Symposium /Association Activities IEEE, ISTE, CSI, IE activities ? NPTEL Course registration ? Guest Lectures, FDLP • Innovation and best practices ? Video Classes ? Industrial Visits ? Internships training ? Soft skills Training ? Placement Training ? Internal Quality Audit dates ? External Audit Dates • FDPs / Workshops / Conferences IQAC Meetings • Freshers' Day • Women's Day, • Engineers' Day, • Teachers' Day, • Sports day, • Annual day, • Science day • Pentafest • Placement Day and Graduation Day • Social Awareness Programme Every semester scheduling of industrial visits, conferences, workshops, seminars, FDPs, association activities, Innovation and best practices ,club activities, Soft skills Training sports tournaments, recruitment and functions is conducted with the discussions HODs,conveners and Organizing committee members. The head of the institution take all the decisions in academic activities in tune with the regulations of the affiliating University. Habitual interaction includes the periodic discussions with the Principal and HODs. The Chairman Sir periodically conducts the meetings with the principal, faculty, cells, Alumni students and parents. Faculty meetings with the HOD play a pivotal role as the collective suggestions are well analysed later in the HODs meetings with the Principal. Principal's subsequent meetings with the top management and with the Governing Council ensure that all the information and suggestions reach from bottom to top and from top to bottom in a smooth fashion. The travel of smooth communication paves way for successful interaction, feedback, team work and new ventures. Organizational changes are effectively implemented not only based on needs, most importantly taking into account "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	<ul style="list-style-type: none"> 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, onthespot 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 Technolgies

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
No Data Entered/Not Applicable !!!	

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
2018	P.Sivakumar	Industrial Robotic	MAHENDRA ENGINEERING COLLEGE	0
2018	S.Vinodh	Industrial Robotic	MAHENDRA ENGINEERING COLLEGE	0
2018	Dr.C.Dhavamani	Industrial Robotic	MAHENDRA ENGINEERING COLLEGE	0
2018	S.Vinodh	Product Design Engineering using Fusion 360	MAHENDRA ENGINEERING COLLEGE	0
2018	T.MYTHILI	Research problem formulation analysis and technical paper writing	MAHENDRA ENGINEERING COLLEGE	0
2018	Dr.C.Dhavamani	Intellectual Property Rights and Cyber Security	Hotel Radisso	0
2018	Dr.C.Dhavamani	Worlds telecomm unication and Society day World Environment day	IE(I) Salem local center, Salem.	0
2019	K.P.Srinivasapuram	CATIA V5 Mechanical Designer (advanced)INDIA45 days / Training Course Fee	0	12213

2019	R ARULRAJ	Research Methodology in fluid Mechanics /Registration fee	0	1000
2018	Dr.K.Vidhya	Smart and Sustainable Green Infrastructures	0	2500
2018	Dr.C.T.Sivakumar	Smart and Sustainable Green Infrastructures	0	2500
2018	L.Vijayan	Smart and Sustainable Green Infrastructures	0	2500
2018	Y.Shantharam	Smart and Sustainable Green Infrastructures	0	2500
2018	Dr.C.Dhavamani	Worlds telecommunication and Society day World Environment day	IE(I) Salem local center, Salem.	0
2018	P.Sivakumar	High's and Low's of an Entrepreneur	YI, Salem.	0
2018	G.Mohanapriya	Total Quality Management system in Technical Education	Sri Ragavendra Polytechnic College , Pallipalayam Road, B.Komarapalayam	5000
2018	K.Balakrishnan	Patent Search Strategies and Techniques	Bannari Amman Institute of Technology	1000
2018	P.Sivakumar	Additive Manufacturing by Professor PoMing Lee	Sri Vishnu Educational Society, BANGALORE	1500
2018	Dr.C.Dhavamani	International Conference Global Innovative Educationist	University Technology MARA Convention Hall, Malaysia	20000
2018	S.Vinodh	MANUFACTURING UNITS IN JSW	JSW Steel Plant	0
2018	P.Sivakumar	MANUFACTURING UNITS IN JSW	JSW Steel Plant	0
2018	Dr.C.Dhavamani	World Habitat	SPC	0

		day and World Standards Day	BHAVAN, SALEM	
2018	S.Vinodh	World Habitat day and World Standards Day	SPC BHAVAN, SALEM	0
2018	Dr.C.Dhavamani	A session on Employee Engagement	Sona College of Technology	0
2018	Dr.C.Dhavamani	Energy conservation 2018	SPC BHAVAN, SALEM	0
2018	Dr.C.Dhavamani	Choose your career by choice not by chance	MAHENDRA ENGINEERING COLLEGE	0
2018	P.Sivakumar	PDMAIndia NPD - New Product Development	Indian Institute of Technology [IIT]Madras Campus	6000
2018	Dr.C.Dhavamani	PDMAIndia NPD - New Product Development	Indian Institute of Technology [IIT]Madras Campus	6000
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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)
2018	Use of Spreadsheet in RCC Structural Design		13/11/2018	14/11/2018	20	0
2019	Information on Industrial Robotics		13/02/2019	14/02/2019	40	0
2019	Faculty Evaluation		04/04/2019	24/04/2019	182	0
View File						

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	Number of teachers who attended	From Date	To date	Duration
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development programme				
Seminar Academic Entrepreneurship :A wide open path	20	30/08/2018	30/08/2018	1
FDTP on Review of Mechanical Engineering Concepts	25	20/08/2018	21/08/2018	2
Advanced Computing Methods in Civil Engineering Systems	4	25/02/2019	01/03/2019	5
"Clean Technologies and Sustainable Development in Civil Engineering"	3	24/12/2018	28/12/2018	5
Engineering Mechanics	2	03/12/2018	07/12/2018	5
Geosynthetics and Building materials	1	19/11/2018	23/11/2018	5
Structural Analysis II	2	26/11/2018	07/12/2018	12
Concrete Technology	2	10/12/2018	22/12/2018	13
IEI	5	07/06/2018	08/06/2018	2
CII	5	09/06/2018	09/06/2018	1
ICCI	1	22/03/2019	22/03/2019	1
Salem productivity Council	2	15/12/2018	15/12/2018	1
FDP on technical English for engineers	2	05/11/2018	10/11/2018	6
FDP on Design of photovoltaic system	1	10/12/2018	14/12/2018	6
Workshop on Industrial perception on Ansys	2	02/07/2018	07/07/2018	6
Workshop on eYantra	2	27/07/2018	28/07/2018	2

robotics workshop IIT Mumbai				
Faculty Development Programme on Decision Making Skills	1	15/11/2018	16/11/2018	2
Research Seminar	1	22/02/2019	22/02/2019	1
FDP on Thermal measurements and process control	2	27/05/2019	31/05/2019	5
Workshop on Industrial perception on Ansys	2	02/07/2018	07/07/2018	6
Seminar on "Green Fuel For future Automobiles"	10	07/12/2018	08/12/2018	2
Workshop on "Learn to Learn"	12	03/01/2019	03/01/2019	1
FDTP" Thermal Engineering"	40	10/12/2018	22/12/2018	13
Seminar on "3D Printing"	15	06/03/2019	06/03/2019	1
Seminar on "Art of Innovation and Be a First Choice of OEM"	20	27/12/2018	27/12/2018	1
FDP on "Product Design Engineering Using Fusion 360"	30	25/02/2019	27/02/2019	3
Seminar on Skills in VUCA World	15	31/08/2018	31/08/2018	1
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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
•Accidental policy	•School and College fees	•Several Scholarship

coverage is provided with a least premium of Rs.60.

- Loan facilities
- Flexible timings provided
- Contributory Provident Fund for management faculty
- Contribution towards medical insurance
- Maternity leave
- 50 of the expenses borne by the Management for paper publications, attending national and international seminars conferences held in India and abroad.
- Orientation and Faculty Development Programmes are organized by the Management
- Casual Leave, Medical Leave, Compensation leave

- concessions are given to their Children
- Loan facilities
- Uniforms for the supportive staff
- Financial aid to educate the children of supportive staff
- Festival advance, Admissions, scholarships and fee concessions for daughters of administrative and supportive staff
- Refreshments during working hours for administrative staff
- Advance to meet emergency expenditure of the staff
- Contributory Provident Fund
- Contribution towards medical insurance.

- schemes
- Trained and professional counsellors are available on campus to help in students' counselling.
- Welfare activities such as disbursing scholarships, financial aid, free education and food tokens to the less privileged.
- Organized orientation programmes for the first year students on all matters relating to academics, student discipline and services
- Organized medical camp for students
- Several National/International seminars and Guest lecturers organized.
- Multipurpose Gym, Fitness programmes, opportunities provided to participate in community oriented programmes, skill development programmes etc.
- Career Guidance provided for students to enhance their employability, in addition to providing information on job availability.
- Coaching classes for UPSC, Competitive Examinations, Foreign Language etc
- Placement programmes arranged with reputed organizations to help them get placed in corporate.

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 they 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 Dean / Directors 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 either Quarterly or Half Yearly Audit reports commenting on their observations and highlighting the corrective measures that need to be taken to ensure proper

compliance as per their observations. The External Internal Auditors' reports are reviewed by Management and forwarded to the respective accountants / Internal Auditors to bring in desired improvements in the areas highlighted by the External Internal Auditors.

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
<ul style="list-style-type: none"> • Ms.Dimension, Coimbatore • Ms.Dimension, Coimbatore • G.K.Construction • G.K.Construction 	290000	<ul style="list-style-type: none"> • Consultancy • Consultancy • Consultancy • Consultancy
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6.4.3 – Total corpus fund generated

100000

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	NIL	Yes	IQAC
Administrative	Yes	NIL	Yes	IQAC

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

• 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)

• 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

6.5.4 – Post Accreditation initiative(s) (mention at least three)

Some New Courses have been introduced Food Technology, Chemical Engineering and Pharmaceutical Engineering Established Centre of Excellence in Artificial Intelligence and Machine Learning Administrative, Staff attendance and Student information system of electronic database have been initiated. Introduction of MTRACE (tie up with SAILAS academy) training classes for attending competitive examinations and Conduction of Talent Recharging Summer camp for students

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal
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	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
2018	IQAC MEETING	12/10/2018	12/10/2018	12/10/2018	25
2019	QUALITY ENHANCEMENT PROGRAMMES	04/04/2019	04/04/2019	24/04/2019	182
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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
Technical Training	06/08/2018	10/08/2018	22	47
Workshop on robotics	06/08/2018	06/08/2018	19	54
Overview of Micro Electro Mechanical Systems	25/08/2018	25/08/2018	24	74
Artificial Intelligence - A Real Application and Innovation Scope	29/08/2018	29/08/2018	27	46
Triptronic Automatic Gear Transmission	26/11/2018	26/11/2018	14	72
Recent trends in MEMS	06/12/2018	06/12/2018	19	68
Furistic Engineering and Innovation Trend of Mechatronics	28/12/2018	28/12/2018	23	68
Assembly Automation Lines	13/02/2019	13/03/2019	18	36
Robotics Welding	28/02/2019	28/02/2019	13	37

Additive Manufacturing and Product Development	28/02/2019	28/02/2019	11	58
Arduino Programming	04/03/2019	04/03/2019	17	49
Product Development Using Arduino	05/03/2019	05/03/2019	29	48
Maneen Valam	28/09/2018	29/09/2018	45	50
Yoga	21/06/2018	21/06/2018	35	40
Rotary Club Youth Leadership Award	08/02/2019	10/02/2019	25	55
Session on Robotics, its Scopes and Opportunities	05/07/2018	05/07/2018	20	49
Current Trends in Industrial Sector	02/08/2018	02/08/2018	16	46
Overview of Hydraulic System Maintenance	02/08/2018	02/08/2018	18	42

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 initiative steps to keep the college campus environment friendly. . Energy conservation The transparent window facilitates 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 are always ensure the electrical equipment "Switched off" when not in use. Encouraging the staff members and students to use staircases whenever it possible to minimize the use of elevator. Solar energy used in the parking areas and other areas. Use of renewable energy Solar energy used in the parking areas and other areas. The college has biomethanation reactor to minimize the LPG usage. A Proposal of erecting a windmill power generator in our campus through students project. Water harvesting The college has adequate facilities to collect the rain water to increase the ground water level. Efforts for carbon neutrality The college has made adequate arrangements for the parking of vehicles. Emission test certificates are 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. Plantation The college organizes NSS camp periodically to inculcate the values of plantation among the students, faculties and public. Our Institution is part of the "Green Kalam Project" and to create green campus, saplings have been planted. Effluent treatment and recycling plant A wellequipped sewage water treatment plant was installed to treat waste water from the Institution. Whether environmental audit was conducted? The students, faculty and staff members are encouraged by the NSS unit to keep the campus always green by planting more trees. Though there is no formal green audit system, the entire

building of the institution is designed by the architect in considering the maximum utilization of natural resources such as Light and Air and very well ventilated.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	No	0
Rest Rooms	Yes	0
Scribes for examination	No	0
Special skill development for differently abled students	No	0

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
2019	27	27	25/03/2019	1	Road Safety Awareness : Headlight Black Sticker pasting	To create awareness , Against high.beam driving as drivers are more inclined to put he adlights on high beam on unlit stretches.	100
2018	27	27	19/12/2018	1	Knowledge and skill development	To develop intelligence and fundamental skills among students based on life incidence	300
2018	27	27	05/12/2018	1	E.	E.	115

			8		Service and E.Security	Service and E.Security	
2018	27	27	07/12/2018	1	E. Service and E.Security	E. Service and E.Security	109
2018	27	27	24/11/2018	1	one day social awareness programme on Cleaning Environment	To make the awareness on Cleaning Environment for surrounding places of Rasipuram	150
2018	27	27	24/11/2018	1	Social awareness programme on avoidance of Plastics	To spread awareness about the hazards of plastics	100
2019	27	27	22/02/2019	1	Hazards of Plastics Campaign	To spread awareness about the hazards of plastics	90
2019	27	27	25/02/2019	1	Horn Not Ok Please (HNOP)" Campaign	An attempt to reduce unnecessary vehicular honking	21
2018	27	27	23/11/2018	1	Cyber Awareness Program (Is the Mobile Friend or Foe?)	Awareness about usage of the mobile	50
2019	27	27	06/02/2019	1	Cyber Awareness Program (Is the Mobile Friend or Foe?)	Awareness about usage of the mobile.	60
2018	27	27	28/11/2018	776711	Awareness Program	Awareness on Electricity safety	100

2018	27	27	28/11/2018	1	Dengue Awareness	Create the awareness about Dengue	50
2018	27	27	15/12/2018	1	Plastic Free Tamilnadu	To create plastic free awareness rally around the village.	100
2018	27	27	18/12/2018	1	Road safety Awareness	Awareness regarding road safety	10
2019	27	27	09/01/2019	1	Oral Health	Awareness regarding tooth brush. Methods of brushing, flossing, dental diseases, food habits and technologies related to dental	250
2019	27	27	28/01/2019	1	Siddha . Healthy Diet Awareness Program	Prevention of diseases through Siddha medicine Remedies for various diseases	100
2019	27	27	28/02/2019	1	Tree Plantation	To Create the awareness between school students about plantation Need of trees	20
2019	27	27	09/03/2019	11	A visit to	Yoga and Medical	50

					orphanage home for community services	awareness program has been conducted to the Orphan home students.	
2018	27	27	23/02/2019	1	Road Safety Awareness	Awareness of Traffic Signs. Speeding Limit. Always Wear their Shields. Maintenance of their Vehicle. Implement the Driver Violation Point System. Awareness through Hoardings	80
2018	27	27	25/08/2018	1	Rain water harvesting awareness program	Create the awareness about rainwater harvesting	18
2018	27	27	28/11/2018	1	Blood donation camp	Create the awareness about blood donation And Educate the peoples about types of blood and who are all eligible to donate blood	20

2018	27	27	24/12/2018	1	Rain water harvesting awareness program	Create the awareness about rainwater harvesting	35
2019	27	27	19/01/2019	11	Rain water harvesting awareness program	Create the awareness about rainwater harvesting	21
2019	27	27	02/03/2019	1	Banned Plastic Awareness Programme	Educate the people about Banned Plastic	19
2018	27	27	21/12/2018	1	Medicinal Plants and Plantation	With help of the school children, various medicinal plants were planted in the school campus and the chart of medicinal plants mentioning its benefits were fixed in the Notice board for ever remembrance.	20
2019	27	27	27/02/2019	1	Fire Safety and Rescue Operations	To create awareness on, Vital importance of fire sprinklers, Fire extinguisher and fire	250

alarm
systems,

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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>1.) DUTIES AND RESPONSIBILITIES OF PROFESSOR / DEAN/HOD</p> <ol style="list-style-type: none">1. Providing leadership in both under graduate and postgraduate 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. Student's 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 activities of the department periodically.15. Maintenance of dead stock, semi consumable, consumable registers with the help of lab incharges16. 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 stalking 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
World environmental day	05/06/2018	05/06/2018	150
International yoga day	21/06/2018	21/06/2018	200
Blood donation day	15/07/2018	15/07/2018	150
Dengue awareness programme	11/08/2018	11/08/2018	450
Road safety awareness	04/09/2018	04/09/2018	250
Kerala flood relief camp	15/09/2018	18/09/2018	105
blood donation camp	03/10/2018	03/10/2018	200
Mobile awareness programme	23/11/2018	23/11/2018	305
Rainwater	25/11/2018	19/01/2019	290

harvesting			
World aids day	01/12/2018	01/12/2018	205
Knowledge and Skill Development Awareness Programme	19/12/2018	19/12/2018	196
Tree plantation	10/01/2019	10/01/2019	120
Eye camp	03/02/2019	03/02/2019	200
Cyber Security Awareness Programme	06/02/2019	06/02/2019	300
NSS Special camp	04/03/2019	10/03/2019	12
Ban plastic	10/03/2019	23/03/2019	150
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Conducted clean survey analysis for finding dengue free campus during the workshop on Challenges of Dengue and its Analysis using Data Analytics Tools by K.Kalvikarasan, Entomologist, Namakkal District 2. The intention of the program is to determine 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. Also provided Nilavembu Kashayam for more than 60 families and acknowledged as "Dengue free House". 3. The awareness program conducted along with sivasakthi matriculation hr.sec.school, pattanam with their school students. Also many public participated on their own interest to create plastic free awareness rally around the village. 4. Aim of planting tree is to restore native forests around village to protect water supplies. Planting of trees and their care is holy act. One tree is equated to 10 children. Planting trees reduces carbon dioxide, a principal green house gas that contributes to global warming. Planting tree increases oxygen level in environment, the most essential gas on globe. 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 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

Innovations by the Faculty in Teaching and Learning The objectives of the best practices for the faculty empowerment are to, • Develop boundary. crossing skills, such as inter. disciplinary thinking, synthesizing knowledge of different disciplines and to cope with complexity • Ensure the knowledge sharing among the faculty members of various disciplines • Make them understand the unknown from known concepts • Foster in. depth learning of the concepts and understanding of varied topics • Promote and enhance the inter. disciplinary learning by the faculty members as well as the students through inter. department lectures • Identify the problems of the society and provide solutions through real. time projects by involving the students In order to

fulfill the above objectives, the following Inter. disciplinary activities are in practice. TASKS - Teachers Acclaimed Seminar for Knowledge Sharing Seminar for teachers by the teachers - A forum for knowledge sharing among the faculty members of various departments on inter. disciplinary areas. FDLP - Faculty Deeper Learning Programme A platform for deeper learning of subject concepts through faculty with high expertise for the benefit of interested faculty members in the specialized areas. InDeL. Inter Department Lecture series Lecture by the faculty members to disseminate their knowledge with the students of other department to provide exposure on inter. disciplinary areas for possible real. Time projects. FISHing - Faculty Idea Sharing Implementation of innovative ideas by the faculty members and students. In addition to the classroom interactions, following are the other methods of learning experiences provided to the students: • Project work • Short /long term Industrial visits • Field work/ Internships • Oral presentation • Technical Seminars/ symposiums/ workshops • Technical paper presentations/ Group discussions • Providing access to e.journals and e.books • NPTEL/NITTTR courseware • MIT Open Course Ware (OCW) / NPTEL are accessible online in digital library (<http://10.0.0.8/mahendra/> (<http://10.0.0.8/mahendra/>)). • Subject materials are available in digital form in the institution website (<http://10.0.0.20/mahendra/> (<http://10.0.0.20/mahendra/>)). • Video Lectures are accessible online in you tube (<https://www.youtube.com/watch?vBusXyoRK8jU>) The impact of such innovative practices is that the faculties are exposed to new modern methods of teaching and better understanding of the knowledge transferred to them within the allotted time. It helps to assess and improve the teaching. Learning process that happens from the formative to summative period. TASKS - Teachers Acclaimed Seminar for Knowledge Sharing: This event is to provide an opportunity for the faculty members of all departments to share their knowledge with the peer group members. The schedule is prepared in advance for the faculty members to share the knowledge on interdisciplinary fields and the interested faculty members partici

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/>

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 primary objective of the institution is the pursuit of Academic Excellence and Placements. The technical knowledge gained by the students is compliment 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 we have formed various centers through which students achieve their academic excellence for industrial standards. The placement cell has been very active in preparing and molding its students to face up to the challenges of a very competitive career environment. TVS Harita Techserve Harita Tech Serv has Signed MOU with Mahendra, for set up Mahendra Harita Research Center for New Product Development and Manufacturing Technologies was inagurated at MEC campus on 11th March 2014. The main objective is to create a Pool of Strong Industry Ready Talent from the Students undergoing Engineering. Bridge the GAP BETWEEN INDUSTRY REQUIREMENTS AND SKILLS TAUGHT IN ACADEMIC COURSE. Groom Engineers who are highly conversant with Design processes involving needfinding, 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 Tieup. LTCENTRE OF EXCELLENCE IN FORMWORK ENGINEERING The Centre of Excellence on formwork engineering was established on 9th November 2017 at Mahendra engineering college, Namakkal. It

was inaugurated by Er.B.Murugesan Joint General Manager, Mr.L.S.Kannan Sr.Deputy General Manager, and Er.C.N.V.S.Rao Sr.Manager, Head Technology Centre, LT Construction Building Factories, Chennai, in the presence of our Honourable Chairman, Executive Director, Principal and Head of the Department. From the Centre of Excellence we 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 centre of excellence we provide training to masons, mazdoor and engineers about various formwork systems and new technologies used in the recent trend. We would conduct several certified courses in formwork engineering inviting participants from various institutions. MECNI LabVIEW Academy Mahendra Engineering College jointly with National Instruments (India) has set up MECNI LabVIEW Academy for Mahendra Educational Institutions. This Academy is an initiative of NI 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 teachinglearning.

Escorts Training and Development Center (ETDC) The signing ceremony of the Memorandum of Understanding (MOU) between the Escorts Training and Development Centre (ETDC), Escorts Limited and the Mahendra Educational Institutions (MEI) was held on 27th February 2017 at Mahendra Engineering College, Namakkal. The ceremony held with the presence of Authorized persons from ETDC Mr. Paul Raj, HEAD and Dr,Samson Ravindran, Executive Director of MEI. This MoU facilitated the connection between ETDC and MEC by the following technical programs such as Internship, Training, Project works and Research for the Agriculture professional students in the way of encouraging and supporting them in their training and Project session.

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.