



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		MOHAMED SATHAK ENGINEERING COLLEGE
Name of the head of the Institution		Dr N.MOHAMED SHERIFF
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		4567-246333
Mobile no.		9443543458
Registered Email		principal@msec.org.in
Alternate Email		msecprincipal@gmail.com
Address		EAST COAST ROAD KILAKARAI
City/Town		RAMANATHAPURAM
State/UT		Tamil Nadu

Pincode	623806				
2. Institutional Status					
Affiliated / Constituent	Affiliated				
Type of Institution	Co-education				
Location	Rural				
Financial Status	Self financed				
Name of the IQAC co-ordinator/Director	M.Mohamed Rafi				
Phone no/Alternate Phone no.	04567241327				
Mobile no.	9442380825				
Registered Email	principal@msec.org.in				
Alternate Email	mohamedrafi@msec.org.in				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	http://www.msec.org.in/iqac.php				
4. Whether Academic Calendar prepared during the year	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.msec.org.in/academiccalendar.php				
5. Accrediation Details					
				Validity	
Cycle	Grade	CGPA	Year of Accrediation	Period From	Period To
1	B++	2.79	2019	15-Jul-2019	14-Jul-2024

6. Date of Establishment of IQAC	04-Oct-2012
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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
Outcome Based Education	09-Aug-2019 1	200
Formation of MHRD-IIC	07-Sep-2019 1	56
DST inspire science camp	24-Sep-2019 5	150
Patent for	18-Dec-2019 1	100
International conference on recent trends in green chemistry and material science	23-Jan-2020 2	120

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8. Provide the list of funds 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
MSEC/MECHANICAL/Dr .M.Rajeshwaran	AQIS	AICTE-MODROB	2020 750	1998000

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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 :	2
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)	
Participated in NIRF Ranking	
Participated in ARIIA Ranking	
Preparation for NBA Audit	
Conducted Academic and Administrative audit	
Certificate Courses, Subject Related Certificate Courses and Value added courses through NPTEL / online Preplacement training programmes were directed to enhance the level of placement. Motivational and Career guidance training Programmes were offered to strengthen the confidence level of students to pursue their higher studies and for better placement.	
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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

To enter in to MOU with various academic bodies of repute in conducting certificate courses.	In collabaration with Spoken Tutorial, IIT Bombay and SwayamNPTEL Local Chapter
To conduct Regular meeting of Internal Quality Assurance Cell (IQAC)	Internal Quality Assurance meeting conducted on 05/06/2019
To conduct Grant Alumni Meet to empower student community	1995-99 Batch Alumni Meet on 27/07/2019 with participants
To conduct Inspire Science Camp-2019 for Higher secondary School students	Inspire Science Camp-2019 - conducted on 24/09/2019 with more than hundred participants
To Conduct Training and Placement program	Placement Training program -UNIQ Technologies conducted on on 14/09/2019

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14. Whether AQAR was placed before statutory body ?	Yes
Name of Statutory Body	Meeting Date
GOVERNING COUNCIL	27-May-2020
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	28-Feb-2020
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	04-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripton and a list of modules currently	Management Information system for the support

operational (maximum 500 words)

of academic and administrative activities. The Planning and Development process includes the registration of students, and admission of students online which is supported by E-Governance software purchased from E4 Solutions Pvt. Limited. Attendance of students for theory and lab hours, topic covered on each hour by teachers, Class timetable, Faculty individual time table, test marks, University Examination marks, University question paper feedback, mentees allotted to each mentor, the counselling reports of mentors, Students extracurricular and cocurricular certificates and many other details of students can be traced from E-Academic software developed by MSEC inhouse. All records related to Academic and financial activities are maintained in paperless form and its retrieval becomes easy for the users by MSEC Office Automation Software. KOHA the library management module is used for maintaining the records of the library like issue, return and renewal of books.

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Planning and Implementation

1.1.1 - Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The Mohamed Sathak College of Engineering is affiliated to the Anna University, Chennai and approved by AICTE. It conducts 10 UG, 9 PG and a Research program in Science and Humanities.

The Institute follows the curriculum approved by Anna University. Our faculty members participate at various bodies of the university such as Academic Council, Board of Studies (BOS), and subject chairman who contribute in framing of syllabus regularly. Institute has constituted an Academic Committee (AC) comprising of Principal, Heads of the Department (HODs) and Internal Quality Assurance Cell (IQAC) which is responsible for planning and

monitoring of overall academic activities and its functioning. Principal receives inputs from IQAC and Department Advisory Board (DAB). Based on these inputs Co-curricular and extra-curricular activities are planned in academic calendar. Each department prepares their academic calendar in line with the institute academic calendar. Principal conducts a common meeting with all teaching and non teaching staff before commencement of every semester. Students are made aware of commencement of semester through common notice and SMS through BASH Bulk Sms system. As per the prescribed syllabus of the University, HOD allocates the teaching load to faculty members through Competence Matrix who prepare their course plan in-line with the departmental academic calendar. Individual faculty uploads unit-wise course plan in college website before commencement of semester. The detailed course file with CO/PO-PSO mapping is prepared by each faculty member. Schedule of internal, external and project examinations are displayed on notice board from time to time. Institute has adopted innovative and creative teaching learning process, tools and techniques by implementing advanced concept of pedagogy, use of ICT, learning management system, student centric methods, participative learning etc. for enhancing teaching and learning experience. The effective implementation of curriculum is ensured by supplementing classroom teaching with expert lectures, seminars, mini projects, in-house and industry supported projects, industry visits, industrial internships, hands-on-sessions, tutorials, case studies, e-learning, SWAYAM-NPTEL lectures, technical quiz, assignments, internal-tests etc. Contents beyond curriculum are identified and taught both in the classroom and in the laboratory to expose students to recent trends in the industry. Institute has taken initiative to provide soft skill training, value added courses and counseling for holistic development of students. IQAC ensures the progress of syllabus coverage every fortnight. Defaulters list is displayed every fortnight and schedule for makeup classes are prepared and executed. SMS are sent to the parents of defaulter students through BASH Bulk Sms. Students' feedback is taken once in semester through Hard Copy distribute the Stalk holder. Continuous assessment for Practical, Term work, Projects, Seminars, internal examination, assignment evaluation is being continuously monitored by IQAC. Academic audit is the part of the teaching learning process which is reviewed by the academic committee. Institute has its own stakeholder's feedback policy in place. Inputs taken from various stakeholders are summarized and recommendations are communicated to the BOS for curriculum revision.

1.1.2 - Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employability/entrepreneurship	Skill Development
Cloud Infrastructure and Services Course	NIL	03/02/2020	14	Employability	Skill development
Cisco Certification	NIL	18/12/2019	14	Employability	Skill

Course					development
Spoken Tutorial -C	NIL	19/08/2019	14	Employability	Skill development
Spoken Tutorial -C plus plus	NIL	20/01/2020	14	employability	Skill development
Spoken Tutorial - JAVA	NIL	03/02/2020	14	employability	Skill development
Mobile App Development	NIL	02/09/2019	14	employability	Skill development
CLOUD INFRASTRUCTURE AND SERVICES	NIL	03/02/2020	14	employability	Skill development
LIBRE OFFICE SUITE/QCAD	NIL	02/09/2019	14	employability	Skill development
NIL	Master Diploma in Interior Architecture and Design	15/07/2019	30	employability	Skill development
Landscape Architecture and Site Planning - Basic Fundamentals	NIL	24/02/2020	56	employability	Skill development
Softwares crash course	NIL	14/05/2020	14	employability	Skill development

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Please see the Attachment	24/06/2019

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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting	Programme Specialization	Date of implementation of CBCS/Elective
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CBCS		Course System
BE	Aeronautical Engineering	24/06/2019
BE	Civil Engineering	24/06/2019
BE	Computer Science & Engineering	24/06/2019
BE	Electronics & Communication Engineering	24/06/2019
BE	Electrical & Electronics Engineering	24/06/2019
BE	Marine Engineering	24/06/2019
BE	Mechanical Engineering	24/06/2019
BTech	Chemical Engineering	24/06/2019
BTech	Information Technology	24/06/2019
BArch	Architecture	24/06/2019
MBA	Bussiness Accounts	24/06/2019
MCA	Computer Application	24/06/2019

1.2.3 - Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	597	30

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
Workshop on 3Ds Max	04/11/2019	48
PLC SCADA	19/08/2019	45
OpenFoam	05/08/2019	23
Application development on cloud computing	27/01/2020	53
Big Data Analytics	05/08/2019	15
Big Data Analytics	24/06/2019	4
AUTODESK INVENTOR	18/08/2019	190

Workshop on Total Station	16/09/2019	44
DWSIM	09/09/2019	38
CAREER GUIDANCE	15/07/2019	451

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1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Aeronautical Engineering	23
BE	Civil Engineering	54
BE	Computer Science & Engineering	53
BE	Electronics & Communication Engineering	52
BE	Electrical & Electronics Engineering	45
BE	Marine Engineering	24
BE	Mechanical Engineering	60
BArch	Architecture	48
BTech	Chemical Engineering	38
BTech	Information Technology	4

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1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The purpose of this Policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the Institute's curriculum for use in program evaluation, accreditation and other academic quality assurance processes and activities. The scope of this Policy covers all the programs run by Mohamed Sathak College of Engineering, Kilakarai, Ramanathapuram. Specifically, this Policy provides a framework for: 1. Monitoring and improving the quality of students' learning experiences through the timely collection, analysis and reporting of student feedback are concerning teaching, learning and assessment. 2. Providing students and stakeholders with the opportunity to actively participate in the continual improvement of programs. 3. Recognizing, documenting, supporting and extending good practices for effective implementations of curriculum provided by affiliating University. 4. Ensuring the provision of information to students and stakeholders regarding the consideration of feedback collected over time, including actions taken to address concerns raised in any feedback received.

Responsibilities

- The Academic Coordinator and the Administrative officer are jointly responsible for the collection, analysis and reporting of stakeholder feedback relating to academic programs.
- Coordination of responses to feedback will be the responsibility of the Heads of Departments.

Policy Provisions

General Provisions

- All students and stakeholders have the opportunity to provide feedback.
- Student feedback is a core component of program evaluation but feedback is also sought from Alumni, Graduates, Parents, Industry partners and Academic peers.
- Feedback processes will be systematic, rigorous and respectful of the rights of students and staff and will incorporate strategies to maximize student participation.
- A range of feedback mechanisms including surveys, focus groups, informal comments and other participatory activities will be employed as appropriate.

Collecting Feedback:

- The Institute seeks student feedback in a form which can be captured, analyzed and reported every time a course is delivered through course end survey.
- A core set of questions will form the basis of a survey deployed to systematically evaluate teaching and learning in all UG PG courses.
- Stakeholder feedback will be collected as required for specific purposes using methods appropriate for the specific feedback sought.

Actions on summarized feedback:

- All the feed backs received from various stakeholders are summarized and analysis is carried out at department level.
- Recommendations made from the feedback comprise, recommendations to Board of studies for changes in the syllabus of the university and the suggestions made to management on procurement of facilities and equipments.
- Recommendations received from the heads are discussed in HODs meeting and forwarded to management for approval/sanctions. The whole

objective of this policy is effective implementation of Curriculum for better learning and continuous improvement of the processes and practices.

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	Aeronautical Engineering	60	6	6
BArch	Architecture	60	15	15
BTech	Chemical Engineering	45	16	16
BE	Civil Engineering	60	18	15
BE	Computer Science and Engineering	60	39	39
BE	Electrical and Electronic Engineering	60	17	17
BE	Electronics and Communication Engineering	60	15	15
BTech	Information Technology	60	28	28
BE	Marine Engineering	30	9	9
BE	Mechanical engineering	120	30	30

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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
2019	1353	122	169	43	Nil

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
212	207	5	60	60	6

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

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

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

The College adopts an effective mentoring system which provides academic and personal guidance to the students. The college had been practicing the mentoring system for the past several years. Each Class Counselor is assigned with 7 to 10 mentees in a year. They keep complete record of their students. Class counselors are given the training for carrying mentoring professionally by Doctors if necessary. Mentoring by the faculty is mostly at the academic level. Class counselor meet their mentees periodically, discusses with them about the progress of their studies, finds out their difficulties, proposes corrective action plans, and follows them up. Records about the discussions are maintained by the Class Counselor, to facilitate future follow up. If he feels that a mentee requires psychological help, the matter is reported to the principal. The college has a professional full time counselor. The student is guided for counseling by the expert. We have noticed that mentoring to be very effective and it motivate the students in fruitful way. Class Counselor keeps in touch with the parents of their mentees by telephonic conversation. They inform the mentees attendance and marks periodically to their parents. During parents-teachers association meeting, Class counselor informs the performance of the mentees to their parents. Broadly, the class counselor is responsible for:

1. Managing the day to day affairs of the mentees
2. Keeping an eye on the regularity of the mentees in the class and other discipline issues
3. Getting to know the family background (economic and social) of the student and suggesting any possible assistance in this regard
4. Maintaining the academic and personal history of the student
5. Know the students better so as to design suitable teaching learning methodologies
6. To identify slow and advanced learners
7. To direct the slow learners to bridge, remedial and other language proficiency courses
8. To direct the advanced learners to add on
9. Keeping the students informed about various college activities and channelizing them to co curricular and extracurricular activities or events as per their interest and talent.
10. Noting the major milestones and the progress of the students over the years, thereby helping the student achieve her/ his potential with advice for suitable careers in their areas of excellence.
11. Addressing individual student problems or any interpersonal issues arising in the class

Over the years, this has developed a healthy relationship between the students and the teachers. The students often approach their heads of departments or subject teachers with confidence in the staff room, departments and other areas in college. In todays highly competitive world, our students are facing various academic problems including exam stress, disinterest in attending classes and inability to understand the subject and Poor Memory Power. Experts from outside are also invited for giving the Perfect Counseling according to their Problems in every semester. They

advised the students to break their problems down through private conversation with them. It is always kept as secret for the welfare of the students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1475	212	1 : 7

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
207	212	Nil	26	29

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
2020	Mr . M . RAFIQ AHAMED	Professor	EXTERNAL QUESTION PAPER SETTER-KLN COLLEGE OF ENGINEERING
2019	Mrs . D . ALAGIAMEENAL	Professor	SILVER -NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . H . PEER OLI	Associate Professor	SILVER -NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . S . BISMILLAHKHAN	Assistant Professor	SILVER -NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . SHIEK ARAFAT	Professor	ELITE-NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . V . RAJESH	Assistant Professor	ELITE-NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . N . SHANKAR	Associate Professor	ELITE-NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2020	Mr . V . BALAMURUGAN	Assistant Professor	ELITE-NPTEL , MINISTRY OF HRD , GOVR OF INDIA
2019	Mr . D . ZHUNAITHUR RAHMAN	Assistant Professor	ELITE-NPTEL , MINISTRY OF HRD , GOVR OF INDIA

2019	Dr .M. VADIVEL	Assistant Professor	ELITE-NPTEL , MINISTRY OF HRD ,GOVR OF INDIA
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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	101	III ,V ,VII /II ,III ,IV	19/10/2019	29/01/2020

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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

This Key Indicator looks at issues related to the assessment of teaching, learning and evaluative processes and reforms, to increase the efficiency and effectiveness of the system. One of the purposes of evaluation is to provide development-inducing feedback. The qualitative dimension of evaluation is in its use for enhancing the competence of students. Innovative evaluation process is to gauge the knowledge and skills acquired at various levels of the programme. The Evaluation process is transparent and Internal Assessment is managed entirely by the college maintaining high quality. The institution is following the continuous evaluation system to achieve the learning outcomes for each course throughout the academic year. This helps each and every department to work towards achieving the goals. Hence, evaluations in the form of class tests, internal assessment, model Examination, assignments, seminars and group discussions are conducted. The ultimate aim of teaching and evaluation of courses is to improve student learning outcomes. Three internal tests are conducted that cover 1.5 units each. Out of three internals, the best two internal marks were considered and the average of which is included in the CIE. In addition to the Written Test, Assignment, Seminar, Quiz, Class Participation and Attendance are the components included in CIE. The internal marks are based on the Internal Assessment Test, model exams and attendance percentage. Internal marks and attendance are periodically communicated to the parents. The answer scripts of examinations are shown to the students after evaluation to bring out the discrepancies, if any, to the notice of teacher concerned, and the necessary corrections are carried out. The students are made aware of the evaluation procedures including revaluation and challenge valuation, examination pattern of college and the university, well in advance through circulars as well as information printed in the

college calendar. The university allots 80 marks for the end semester exams and 20 internal marks. The marks in the internal tests are uploaded in Anna University web portal. Internal marks and End Semester University Examination marks are sent to parents by post. Attendance is entered periodically in the Anna University web portal. During Parent-teachers meeting, Progress and grievances faced by their ward is discussed. The class teachers carefully monitor the regularity of attendance and the performance of the students in internal evaluation tests and end semester examinations. Students and parents are made aware of the university rules regarding continuous internal evaluation. Dates and portions for the internal tests are communicated to the students before the commencement of the semester and are strictly adhered to. Results of these internal tests will be given within three days after the test. Question paper will be discussed in the class, with the scheme. Grievances, if any, will be addressed immediately.

2.5.3 - Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is a very important document, which contains the most important dates to guide the teachers and students. The institute prepares its academic calendar, based on the University calendar. The academic calendar is prepared by the calendar committee. The calendar is printed with the schedule of 90 working days for each semester with day order system of six days with seven hours per day. The calendar specifies the schedule for Internal Assessment Test, the date in which I,II,III,IV,V units will be completed, number of working days in a month, date of Internal Examination Review meeting and the date of commencement of End semester Examination. The academic calendar also mentions the important days to be celebrated and observed. In the beginning of the academic year, the students are apprised of academic calendar. The same is displayed on Department notice boards. Only head of the institution can do minor changes in academic calendar during unavoidable circumstances. Each teacher considers this calendar as reference to prepare a subject-wise Lesson plan indicating the topics and the hours required for the completion of it. The e-Academic Calendar is also made available on the college website. If the University changes its schedule and postpones the examination, then the institute changes the schedule of model examination alone, to facilitate better examination preparation for the students. It provides a plan for the academic year to students, teachers and parents. Considering the academic calendar, each department functions according to the teaching plan prepared at the department level.

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)

<https://www.msec.org.in/uploads/POs&COs.pdf>

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
405	ME	Computer Science And Engineering	4	4	100
113	BE	Marine Engineering	21	20	95
205	BTech	Information Technology	4	4	100
106	BE	Electronics And Communication Engineering	51	50	98
105	BE	Electrical And Electronics Engineering	45	43	96
104	BE	Computer Science And Engineering	53	52	98
103	BE	Civil Engineering	55	54	98
203	BTech	Chemical Engineering	38	38	100
251	BArch	Architecture	37	28	76
101	BE	Aeronautical Engineering	23	21	91

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2.7 - Student Satisfaction Survey

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

<http://www.msec.org.in/sss.php>

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - 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
Major Projects	180	PANTECH Solutions	0.75	0.75
Interdisciplinary Projects	90	MSEC TRUST	0.1	0.1
Projects sponsored by the University	180	TNSCST	0.15	0.15
Students Research Projects (Other than compulsory by the University)	90	MSEC TRUST	0.5	0.5
Students Research Projects (Other than compulsory by the University)	180	Star Technologies	0.2	0.2
Any Other (Specify)	730	MODROBS-AICTE funding	1998000	1598400

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3.2 - Innovation Ecosystem

3.2.1 - 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
DST-SERB Sponsored International Conference on Recent Trends in Green Chemistry and Material Science (RTGCMS-2020)	Department of Applied Science and Humanities	23/01/2020
One Day Seminar on Building with Nature: Resilient Environments and Buildings	ARCH	26/08/2019
Webinar on Urban Environmental Management	CIVIL	28/05/2020
Webinar on Developing GIS Hub for Sustainable Construction	CIVIL	06/05/2020
Webinar on Role of IPR in Chemical Industries	CHEMICAL	24/04/2020
Webinar on Intra Departmental Meet (Zorbing 19)	CSE	16/03/2020
Whats Next? Career Guidance for young Aspirants	CSE	10/02/2020
Webinar on Containerized Deep Learning Architecture	CSE	03/02/2020
Three Days Workshop on Core JAVA	CSE	23/07/2019

Path Finders :Virtual Panel Discussion on Tech Career	CSE	07/06/2020
TNSCST Sponsored one day workshop on emerging trends of DIP on Bio informatics	ECE	17/08/2019
One day seminar on Antenna Design and simulation	ECE	22/08/2019
One day seminar on interview process Core companies	ECE	25/08/2019
One day Webinar on IOT	ECE	19/05/2020
Overview of Electric Vehicles and Indian scenario	EEE	29/05/2020
One day seminar on Carreer Guidance	IT	13/01/2020
one day Webinar on Red Hat Linux Series	IT	06/05/2020
one day Webinar on Network Security	IT	09/05/2020
Webinar on Design Renovate 2020	MECHANICAL	14/02/2020
Webinar on Solar Thermal Technologies	MECHANICAL	27/05/2020
Webinar on Intelligent systems	MECHANICAL	28/05/2020
Webinar on Industrial Expectations and Students Preparedness	MECHANICAL	07/08/2019
Webinar on DEUS EX MACHINA - 19	MECHANICAL	30/08/2019
Webinar on Smart way to Succeed in Compettive Examinations	MCA	29/05/2020
Motivation for Enhancing Employability Skills	MBA	07/09/2019
NationalWebinar on Challenges and Opportunites in HR after COVID19	MBA	29/05/2020

3.2.2 - 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
NationalWebinar on Challenges and Opportunites in HR after COVID19	Dr.D.Alagia Meenal	NPTEL	01/07/2019	SILVER

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

Incubation Center	Name	Sponsered By	Name of the	Nature of Start-up	Date of
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AICTE - MHRD Institute Innovation Council (IIC)	AICTE - MHRD Institute Innovation Council (IIC)	AICTE - MHRD Institute Innovation Council (IIC)	Start-up A.A.AHAMED Engineering	Mechanical Engineering Fabrication Machining Works	Commencement 06/02/2020
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3.3 - Research Publications and Awards

3.3.1 - Incentive to the teachers who receive recognition/awards

State	National	International
3	7	5

3.3.2 - Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
ENGLISH	1
MECHANICAL	2

3.3.3 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	7	5.3
International	ECE	3	0.47
International	EEE	3	1.1

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

Department	Number of Publication
IT	16
CSE	3
ECE	2

EEE	6
ECE	2

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3.3.5 - 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
Optimal Investigation of Daylighting and Energy efficiency in industrial building using energy-efficient velux daylighting simulation	G.Kousalyadevi and G.Lavanya	Journal of Asian Architecture and Building Engineering	2019	5	MSEC	5

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3.3.6 - 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
Influence Of Temperature In Scattered SiNw MOSFET	Dr. I. Sheik Arafat, S.Bismillakhan	Proceedings of the National Academy of Sciences , India	2019	1	1	Mohamed Sathak Engineering College, Kilakarai

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3.3.7 - Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local

Attended/Seminars/Workshops	52	707	2263	259
Presented papers	67	63	4	55
Resource persons	1	31	6	Nil

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3.4 - Extension Activities

3.4.1 - 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
Yoga Day Celebration	Vivekantha Service Mission	8	56

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3.4.2 - 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
BLOOD DONATION CAMP	CERTIFICATE OF APPRECIATION	MEENAKSHI MISSION HOSPITAL MADURAI	150
YOGA DAY CELEBRATION	CERTIFICATE OF APPRECIATION	Yoga trainer, Paramakudi	56

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3.4.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
SWATCH BHARATH - CLEAN SERVICE	Ramnad Collectorate office.	SWATCH BHARATH - CLEAN SERVICE- District level workshop	10	58

VIGILANCE ANTI-CORRUPTION PROGRAM	VIGILANCE ANTI-CORRUPTION RAMANATHAPURAM	VIGILANCE AWARENESS ANTI-CORRUPTION PROGRAM	26	260
GENERAL MEDICAL CAMP	Meenakshi mission hospital madurai	BLOOD SUGAR,BLOOD PRESSURE,ECG	2	100
FIT INDIA PROGRAM	government of india	healthy and fit by including physical activities	2	80

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3.5 - Collaborations

3.5.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Consultancy work	Dr.V.Mayilvelnathan	SUREN Power pvt Ltd	365

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Software Development	Opentext, Bengaluru	27/01/2020	30/01/2020	38

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3.5.3 - MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs

MC Architects	13/07/2019	Placement and training	8
Jaisimmah Architects	03/09/2019	Placement and training	11
Varshaa Architects and Interior Designers	13/07/2019	Placement and training	6
Almino Structures, Ramanathapuram	02/01/2020	Training and certification program for Engineers,	167
Golden Key Builders, Ramanathapuram	10/01/2020	Training and certification program for Engineers,	167
Institute of Engineers (India)	17/06/2019	Developing research projects, Exchange of academic information, materials and facilities, Short term course and training, Training and certification program for Engineers, Organizing/participating seminar, conference, workshop	106
CADD Centre Training Services	01/06/2019	Training and certification program for Engineers	191
Transenergetics	06/01/2020	Industrial exposure, Provisions for inplant training and industrial visit for students and staff, Placement, Provision for Guest lecture, Hands on training on instrumental methods	89

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CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
119.04	119.04

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Existing
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 - Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Koha	Fully	16.11.06	2017

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	61154	202	356	1	61510	203
Reference Books	9804	4	41	1	9845	5
e-Books	507	1	507	1	1014	2
Journals	Nil	Nil	Nil	Nil	Nil	Nil
e-Journals	1380	1	1380	1	2760	2

Digital Database	Nil	Nil	Nil	Nil	Nil	Nil
CD & Video	1638	Nil	6	Nil	1644	Nil
Library Automation	1	Nil	Nil	Nil	1	Nil
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil
Others (specify)	4188	Nil	Nil	Nil	4188	Nil

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
0	0	0	31/08/2020

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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	537	470	470	20	0	20	22	45	5
Added	0	0	0	0	0	0	0	55	0
Total	537	470	470	20	0	20	22	100	5

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

100 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
0	0

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
73.85	73.85	244.85	244.85

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, provide link)

Laboratory Maintenance All the equipment and machinery of the laboratories are periodically maintained by the lab technicians. If the equipment/machinery is to be serviced during the warranty period, the supplier of the equipment/machinery will be intimated about the repair and it will be serviced either in-house or in the supplier premises based on the nature of the defect. After the warranty period if the equipment/machinery demands service, the technical staff attached to the respective laboratories service the equipment/machinery to the extent possible. Computer and Accessories Maintenance Due to a large number of computers and networking, a separate team looks after the maintenance of computers and networking. With this team, breakdown calls related to systems are quickly resolved. Campus Maintenance The people appointed for maintenance of infrastructure, on daily basis would report to the civil engineer of maintenance wing, any breakages and other maintenance requirements, and civil engineer arranges to get them rectified. Cleanliness daily maintenance of the interior facility (classrooms, laboratories, library, hallway, and staircase) is done by the housekeeping team of the institute under the supervision of the college maintenance engineer. The Fire extinguisher is outsourced since refilling of the cylinder is done once in a year. The drinking water facility to the entire campus is done through RO plant.

<https://drive.google.com/file/d/17WDdfq0pfZ0jby7BPL-zpqwtF0wLLHvf/view?usp=sharing>

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institution/Management Scholarships	761	22931549
Financial Support from Other Sources			
a) National	Government Scholarships	534	15392305
b) International	Nil	Nil	Nil

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Language Lab	28/06/2019	748	STAFF FROM ENGLISH DEPARTEMNT
Remedial coaching	07/08/2019	444	SUBJECT HANDLING STAFF FROM EACH DEPARTMENT
Soft Skill Development	17/02/2020	36	JETWINGS TECHNOLOGIES
Career Counselling	10/02/2020	160	Mrs.Jennathul firthous , Infosys, chennai Mr.Hameed sulaiman, FE fundinfo,Chennai
Career Counselling	10/01/2020	48	Mr.Alwar Babuji (Chairman, Civil Engineer Association, Coimbatore)
Guidance for competitive examinations	23/01/2020	95	SMART LEADERS IAS ACADEMY,CHENNAI
Career Counselling	20/12/2019	49	U.Dharani, Technical Author, Lion Bridge Techno Pvt.Ltd.
Bridge Course	06/08/2019	176	FIRST YEAR SUBJECT HANDLING STAFF
Yoga	21/06/2019	67	Dr.Padmanathan, Professor(Rtd), Govt Teacher Training Institute - Ramnad
Personal Counselling	19/08/2019	35	PERSONAL COUNSELLING MEMBERS

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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

2020	Competitive examinations and Career counselling	95	526	4	96
2019	Competitive examinations and Career counselling	Nil	133	Nil	9

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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
Nil	Nil	Nil

5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
APTIVE COMPONENTS IND PVT LTD, FLEX, POWERTECH DEVELOPMENT., ARADHYA'S BRILLIANCE CENTRE	227	82	TAGROS CHEMICALS (I) LTD, CUDDALORE, STEEL STRIPS WHEELS LTD, SRIPERUMPUTHUR, OCEAN SPARKLE, SEA SPARKLE HARBOUR SERVICES PVT. LTD, DESTAN SHIP MANAGEMENT PRIVATE LIMITED, NAUTILUS SHIPPING INDIA PVT LTD, M. PALLONJI SHIPPING PRIVATE LTD	23	23

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

Year	Number of students enrolling into higher	Programme graduated	Department graduated from	Name of institution joined	Name of programme admitted to
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	education	from			
2020	1	B.E.	Electrical & Electronics Engineering	Panimalar Engineering College, Chennai	MBA
2020	1	B.E.	Electronics & Communication Engineering	Mohamed Sathak Engineering College, Kilakarai	MBA
2020	2	B.E.	Computer Science & Engineering	Mohamed Sathak Engineering College, Kilakarai	M.E. (Computer Science & Engineering)
2020	1	B.E.	Aeronautical	Chalmar University, Swedan	M.SC (Applied Mechanics)
2020	1	B.E.	Aeronautical	University Teknologi, Malaysia	M.Sc. (Aero)

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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
Any Other	4

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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
1995-99 Alumni Cricket Tournament	College	64
Inter Polytechnic Football Tournament-IPAA Men	State	396
District Level Football Tournament (School Education)	District	144
District Level Basket Ball Tournament (School Education)	District	84
District Level Volley Ball Tournament (School Education)	District	96

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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	PATTAYA SOCCER CHAMPIONSHIP 2019, THAILAND	International	1	Nil	911517105003	Abul Jararudeen S

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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)

Students have active representation on academic and administrative bodies and committees of the Institute and Department. Every year, a student council is formed with set of students and teaching faculty. The student members will play their role under the supervision of the faculty. Enthusiastic students with the interest in playing leadership roles will be nominated as members of the council and they will play in academic and administrative roles. The student council plays a vital role in Departmental and College level activities. Student council members are take part in both co-curricular and extra-curricular activities. Student council members are participated in academic level activities like class committee meeting and give suggestions from students' point of view. Besides academic activities, Student council members actively participate in Sports committee, cultural committee, magazine committee, etc. Our college provides ample avenues for developing technical skills, updating knowledge, personality development and service to the society through various Associations and Societies. They are involved in administrative roles in organizing the events like Students symposia, Seminars, Workshops under the supervision of the faculty. Also they involve in organizing events such as students' chapter day, achiever's day and various club activities. The Council members take the leadership roles and guide the students in all aspects. They also motivate other students to take part in the activities conducted by the Institute and the departments. Teaching faculty is available in the council for smooth and effective functioning of the council. Student council members will act as per the directives of teaching faculty.

5.4 - Alumni Engagement

5.4.1 - Whether the institution has registered Alumni Association?**Yes**

MSEC Alumni Association (MSECAA) creates and maintains a life-long connection between MSEC and its alumni. In collaboration with an extremely dedicated team, the Alumni Association works to connect alumni, support students, and build an unforgettable Institute experience through a diversity of events, programmes and services. MSEC Alumni Association is registered as a society under Government of Tamilnadu Societal Act during the year 2014 with the Registration Number. 36/2014. With over 2800 registered life members, MSECAA is functioning diligently to serve its alumni and alma mater, as well as for the society.

5.4.2 - No. of enrolled Alumni:

2804

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

300000

5.4.4 - Meetings/activities organized by Alumni Association :

1. 1995-99 Batch Alumni Meet on 27.07.2019 @ MSEC, Kilakarai
2. Annual Convention 2019 of MSEC Alumni Association on 22.09.2019 @ The Kings Hotel, Chennai

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)**

Empowering Faculty Centered Practices: The institution functions with the method of decentralized governance system. The head of the department has been bestowed with the authority of deciding the activities and delegating the responsibilities to the staff members. The department decides on timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures and workshops and recommends necessary industrial visits, in-plant trainings, internships and MoUs. The institution is functioning effectively with the culture of participative management which enables the faculty and students to give their opinion and suggestions for improvement. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, HODs' meetings with Principal. The Principal coordinates with the departments, administration and management. Participative management provides extensive scope for having collaboration among the departments and ensures the quality of planning and implementation of all the activities

in the institution uniformly and as a team. Every year Academic Planner is prepared at the closure of the previous academic year. Principal will convene the HODs' meeting. HODs, Dean, Training Placement, Sr. Librarian and Director of Physical education will attend the meeting. Empowering Students Centered Practices: Through Choice Based Credit System, students are given freedom to choose the elective courses. Students can have freedom to transfer credits earned through online courses like SWAYAM NPTEL Courses, etc., Further, they have been provided with adequate support to choose their career as Entrepreneur / Higher studies / placement / preparing for competitive examinations. Students have been given enough representation in the highest decision making bodies like Class committee meetings, Department Advisory Board (DAB) and Internal Quality Assurance Cell. Students are also given full freedom to organize technical symposiums, sports events, and coordinator of co-curricular, extra-curricular activities, NSS social service group coordinator.

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
Admission of Students	For the admission purpose our college follows the guidance of Tamilnadu government for seat allotments and every procedure. Regional Nodal centers at various locations are established every year to create awareness and importance of students from rural background. • Various programmes are organized by the institute every year for the HSC/Diploma students in the college campus. It gives an opportunity for students to visit the campus which in turn increase the number of admission. • Motivational programmes are organized at various government schools to bring out students from exam fear which will create an impact among students. The students from those schools prefer our institute and joined in our courses.
Industry Interaction / Collaboration	The goal and actions for Industry Interaction in the perspective plan are as follows: • To invite industry experts for providing business aspect of technology to the students • To invite industry experts for curriculum development for making it more industry relevant • To explore opportunities for consultancy to the industry • To organize student and faculty visits to industries
Human Resource Management	The goal and actions for Human resource planning and development in the perspective plan are as follows: • To foresee and plan additional human

	<p>resource requirement considering institution's growth plans • To organize need-based workshops for teaching and nonteaching staff members • To depute faculty and staff for development programmes • To mentor faculty for research</p> <ul style="list-style-type: none"> • To create awareness on various policies and trends related to education • To groom leadership qualities and communication skills.
Library, ICT and Physical Infrastructure / Instrumentation	<p>Every department has its own library to access the respective department oriented reference books. Also the institute has central library which contains various books, journals, question bank, project report, e-journal, etc. The central library has enough space to accommodate students from various departments. Every classroom, seminar halls, auditorium are ICT facilitated in our campus.</p>
Research and Development	<p>The goal and actions for research and development in the perspective plan are as follows: • To establish research center, incubation, start-up and center of excellence • To encourage and facilitate faculty members for consultancy • To promote collaborative research • To create awareness on intellectual property rights among students • To start Ph.D. programs in all departments</p>
Examination and Evaluation	<p>There is a complete transparency in the examination system, Evaluation of internal assessments through continuous assessment that includes first second and third internal test. The tentative dates of internal tests and semester examinations are presented in the academic calendar prepared by the institution. The internal exam answer sheets are evaluated by the concern subject staff member. At the end of each internal examination, result review meeting will be conducted for all the departments by the head of the institution. The evaluation process will be continuously monitored by the head of the department. Before conducting the final semester examination, the model examination will be conducted and evaluated by the concern subject staff member. The model exam will be helpful for students to practice for a semester examination. Finally the semester examination will be conducted and evaluated by Anna University Chennai.</p>
Teaching and Learning	<p>The goal and actions for teaching and learning in the perspective plan are as follows: • Dissemination of best practices in leading institutes to the faculty members • Encouragement for their experimentation and adaption • Encourage faculty to implement methodologies of active learning, Project Based Learning, smart Classroom and IOT tools • Encourage faculty for the creation and use of digital content, MOOCS • Encourage students for self-learning, active learning and project based learning • OBE system is followed</p>

	for UG PG programmes • Online courses like SWAYAM , NPTEL, etc are helpful for enhancing teaching learning process.
Curriculum Development	In general, our college follows the syllabus of Anna university Curriculum maintains the balance in the composition of Basic Science Engineering, Humanities, Professional Courses and their distribution in Core and Electives along with Seminars Project works. The feedback from the Alumni's and Industry experts were taken with at most importance and GAP's were identified along with the data collected from Internet (National International websites), other universities which are located in and around Tamil Nadu. The data collected was then presented in front of the Department of advisory board. The board advices to do certificate courses, subjected related certificate courses, value added courses and Internship program. Taking action for the development of curriculum by analyzing the feedbacks collected from students, parent, alumni, employees and faculties.

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

E-governace area	Details
Examination	Mohamed Sathak Engg. College (Inhouse)
Planning and Development	Purchased from E4 Solutions, 4-199 F, 14th Cross, Sri Santhanam Kailoss Garden, Vayaloor Road, Trichy - 620102
Administration	Mohamed Sathak Engg. College (Inhouse)
Finance and Accounts	Purchased from Parakram Infotec (P) Limited, 22 First Floor , 10th Avenue Ashoknagar Chennai 600083 E-Mail : tally@parakram.in
Student Admission and Support	Mohamed Sathak Engg. College (Inhouse)

6.3 - Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Ms .S. SANTHANA JEYALAKSHMI	International Workshop on Transformative Management for Recessive Economy,organised by	Nil	500

		Syed Hameedha Arts Science College, Kilakarai on 10.10.2019		
2019	DR. I. SHEIK ARAFATH	DESIGN OF DRONES	SRINITHI EDICATIONAL GROUP	3000

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6.3.2 - Number of professional development / administrative training programmes organized by the College 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)
2019	INSPIRE INTERSHIP SCIENCE CAMP	Nil	24/09/2019	29/09/2019	150	Nil

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6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
SkyCampus -Season 6-Future Tech 2020, ICTACADEMY	7	18/05/2020	22/05/2020	5
"Accelerating Industry 4.0 - A Post Covid Paradigm", ICTACADEMY	5	25/05/2020	29/05/2020	5
NAAC Awareness Programme For Faculty	5	08/05/2020	14/05/2020	7
Scilab, IIT Bombay	1	25/05/2020	30/05/2020	6
Exploring Outcome Based Education (OBE) And NBA Process"	4	07/05/2020	13/05/2020	7
SkyCampus -Season 1-Technology For Future, ICTACADEMY	3	09/04/2020	18/04/2020	9
SkyCampus -Season 2- LEADING IN A VUCA WORLD,	3	20/04/2020	24/04/2020	5

ICTACADEMY				
SkyCampus -Season 3-The Future is here, Now!, ICTACADEMY	6	27/04/2020	01/05/2020	5
SkyCampus -Season 4-The Future of Education, Employment Entrepreneurship, ICTACADEMY	3	04/05/2020	08/05/2020	5
SkyCampus -Season 5-The Future of Skills - Education, Employment and Entrepreneurship, ICTACADEMY	5	11/05/2020	15/05/2020	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
26	26	2	2

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
<input type="checkbox"/> Group Medical Insurance <input type="checkbox"/> Staff quarters for teaching faculty <input type="checkbox"/> Employee Provident Fund <input type="checkbox"/> Granting Medical leave and Maternity leave <input type="checkbox"/> In minimum charge transport facilities <input type="checkbox"/> Waiver of fees up to 50 for teachers' children in our institution and sister concern Institution <input type="checkbox"/> Vacation for every semester <input type="checkbox"/> Medical Support from our Indian Medical Systems <input type="checkbox"/> Gifts and mementoes during Teachers' Day celebrations <input type="checkbox"/> Sponsoring for attending conference, workshops and FDPs <input type="checkbox"/> Reward for publication of papers / research articles <input type="checkbox"/> Reward for producing University Ranks <input type="checkbox"/> Awards for academic excellence / 90 and 100 pass academic result	<input type="checkbox"/> Educational support to the children of the staff <input type="checkbox"/> Offering free food <input type="checkbox"/> Conducting free eye check up camps <input type="checkbox"/> Offering uniforms for free of cost <input type="checkbox"/> Granting medical leave / maternity leave <input type="checkbox"/> Employee Provident Fund <input type="checkbox"/> In minimum charge, transport facilities <input type="checkbox"/> Vacation for every semester <input type="checkbox"/> Sponsoring for attending orientation programmes, workshops and conferences.	<input type="checkbox"/> Alumni scholarship for deserving students <input type="checkbox"/> Scholarship for BC, SC/ST, Minorities and First Graduate Students <input type="checkbox"/> Granting Medical leave <input type="checkbox"/> Group medical Insurance <input type="checkbox"/> Reward for attending Orientation Programmes, Workshops and Conferences <input type="checkbox"/> Reward for producing University Ranks <input type="checkbox"/> Awards for Academic Excellence

6.4 - Financial Management and Resource Mobilization

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

Financial committee has been constituted to allocate funds for various activities and it was placed before the Governing council for getting approval. At the end of the financial year, account details are audited by external Auditor nominated by Trust Auditor and the final audited report is submitted to Trust office Chennai and the College.

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
TMAGC	26750	Education scholarship

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6.4.3 - Total corpus fund generated

0

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	ISO	Yes	Internal Quality Audit Committee Members of MSEC
Administrative	Yes	ISO	Yes	Internal Quality Audit Committee Members of MSEC

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

Orientation programme (First year Inaugural Function) was organized every year for the 1st year students along with their parents. At the end of the programme, parents are invited to share their feedback. During Parent Teachers meeting, the parents are called to inform about the activities carried in the departments and in the institution. Parents are members in Anti ragging committee and Grievance committee.

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

Computer Operations Skill Development Programmes like Personality Development and Work Life Balance. Knowledge regarding new experiments are taught by professionals from the

industry**6.5.4 - Post Accreditation initiative(s) (mention at least three)**

Applied for NBA accreditation for 4 departments and received NBA accredited certificate for all 4 departments. Internal Quality Circles are framed to take care of quality enhancement in each criterion as specified by NAAC. IQAC activities are divided in to 10 modules and the coordinators are appointed to monitor activities of each module. More number of Entrepreneurship Training and Employability Skills Activities carried out.

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Participation in NIRF	12/12/2019	12/12/2019	12/12/2019	Nil
2019	Participation in AISHE	30/09/2019	30/09/2019	30/09/2019	Nil
2019	Conduction of Parents Teachers Meeting	05/08/2019	05/08/2019	05/08/2019	400
2019	Placement Training -UNIQ Technologies	14/09/2019	14/09/2019	14/09/2019	140
2020	WOMEN EMPOWERMENT PROGRAM	15/02/2020	15/02/2020	15/02/2020	140
2019	Regular meeting of Internal Quality Assurance Cell (IQAC)	05/06/2019	05/06/2019	05/06/2019	20
2019	1995-99 Batch Alumni Meet	27/07/2019	27/07/2019	27/07/2019	120
2020	NBA Expert Committee Visit	28/02/2020	28/02/2020	01/03/2020	120
2019	Inspire Science Camp-2019	24/09/2019	24/09/2019	28/09/2019	100
2019	STUDENT TRAINING HIREMEE ASSESSMENT PROGRAMME	15/10/2019	15/10/2019	15/10/2019	432

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CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Women's Day Celebration	09/03/2020	09/03/2020	65	195
Security Tactics	03/02/2020	03/02/2020	47	167
Cyber crime awareness Programme	10/09/2019	10/09/2019	62	227

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

Alternative Energy Initiative : Percentage of power requirement met by renewable energy sources (Power requirement met by renewable energy sources / Total power requirement) X 100
(440 / 6950) X 100 6.03

7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil

7.1.4 - Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	15/02/2020	1	Womens Empowerment Program	Social	200
2020	1	1	12/02/2020	1	Corona Virus Awareness Program	Rural	300

2020	1	1	25/01/2020	1	National Voters day 2020	Rural	250
2020	1	1	20/01/2020	1	National Voters day 2020	Social`	200
2020	1	1	20/01/2020	1	Vetrinamathe 2020	Rural	1500
2019	1	1	21/11/2019	1	Meenakshi mission Medical Checkup	Rural	220

[View File](#)

7.1.5 - Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of conduct	02/07/2019	<p>1. The work environment. 2. Conflicts of interest. 3. Protecting company assets. 4. Anti-bribery and corruption. 5. Attendance and punctuality. 6. Absence without notice. 7. General harassment and sexual harassment. 8. Cell phone use at work. 9. Dress code. 10. Substance abuse. 11. Tobacco products. 12. Internet use at work. 13. Be inclusive. 14. Be considerate. 15. Be respectful. 16. Choose your words carefully. 17. Dont harass. 18. Make differences into strengths. Dress Code BOYS: GIRLS : Bus And Transportation: Canteen / Mess: General Discipline: Leave Application: Leave On Duty : 1. JOB RESPONSIBILITIES AND DUTIES OF PROFESSOR / DEAN / HOD 2. JOB RESPOSIBILITIES OF ASSOCIATE PROFESSOR/ ASSISTNAT PROFESSOR 3. JOB RESPONSIBILITIES OF SYSTEM ADMINISTRATOR 4. JOB RESPONSIBILITIES OF LABORATORY INSTRUCTOR 5.JOB RESPONSIBILITIES OF PLACEMENT OFFICER 6. JOB RESPONSIBILITIES OF PLACEMENT ASSISTANT 7. Job Responsibilities of Librarian 8.JOB RESPONSIBILITIES OF OFFICE SUPERINTENDENT 9.Job Responsibilities of Clerk in Establishment section under O.S. 10.Job Responsibilities of Clerk Students Section(Admissions) 11.Job Responsibilities of Junior Clerk/P.A.to Principal 12.Job Responsibilities</p>

**of Receptionist / Telephone Operator 13. Job responsibilities of
Accountant 14. Job responsibilities of Examination Officer**

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Pongal Celebration	11/01/2020	11/01/2020	238
Non-Violence day (Mahathma Gandhi Birthday)	03/10/2019	03/10/2019	128
Impact of Peace (Mother Teresa Birthdat	26/08/2019	26/08/2019	142

[View File](#)

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

Environmental issues like global warming, depletion of ozone shield, excessive addition of carbon footprints, intensifying pollution and many more factors that are disrupting the human habitat requires effective and conscious action for controlling them. Mohamed Sathak Engineering College is committed towards Environmental consciousness and protection through the core values of its mission and vision. Understanding the importance of environment consciousness and its inordinate need, the Institution makes all possible efforts, which are required, to create a healthy, green and sustainable environment. The Institution has taken several initiatives to make the premises eco-friendly. ENERGY CONSERVATION USE OF RENEWABLE ENERGY WATER HARVESTING EFFORTS FOR CARBON NEUTRALITY: E-WASTE MANAGEMENT SOLID WASTE MANAGEMENT

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Best Practice - I 1. Title of the Practice: Mentorship Scheme 2. Goal To plan Personal and career goals of students. To improve presentation skills/written skills and oral communication skills. To improve general aptitude test/technical quiz proficiency. To develop leadership qualities. To know resume writing and preparations for mock interview. To monitor overall progress of students during his/her graduation. 3. The Context: Along with the adaptation of good teaching learning process, which enhances the technical knowledge of students, Institute has designed innovative methods for the overall personality development of the students. Through Mentorship scheme- institute has developed systematic road map for improving the different aspects of personality developments, Communication Skill, Presentation Skill, Team Work, leadership qualities, resume writing, etc. and make them ready to face the challenges in industry. The students lagging in any of the above

mentioned skills are eager to participate in the different activities planned under the Mentorship Scheme to develop themselves. □ The objective of Institute to implement mentorship scheme is to provide training and guidance to undergraduate students in all disciplines, increase the participation of all undergraduate students from first year to BE in the different activities conducted by the Institute, which will be useful to them in their life after graduation. □ Faculty who serve as mentors make a valuable contribution to the education and training of undergraduate students interested in hands-on experience in different activities. Students judge the experiences primarily by their interaction with their mentors. Thus, the role of faculty member in scheme is crucial to the program's success.

4. Practice: □ In the mentorship scheme a Teacher (mentor) is allocated with group of approximately twenty students (mentees). Around five students from each year i.e. First year, Second year, Third year and Final year to form a group of twenty. □ Mentor meeting is conducted once in an alternate week. Various activities like career goal setting, presentation skill, communication skill, resume writing, aptitude test etc. are conducted in the meetings. □ Along with these activities, mentor has to keep the academic record of the mentees allotted to him in terms of their monthly attendance, academic results, co-curricular participation within and outside campus etc. and inform the same to the parents.

5. Evidence of success: □ The evidence of success of mentorship system is reflected through the overall personality development of students. □ Those students who had lack of confidence, weak in communication, poor presentation skills, were observed having marginal improvement in the lacked areas when they came to final year. □ Parents were happy to have a system where, the overall progress of their ward is monitored and informed to them timely right from the first year till the candidate completes his/her engineering. □ There is a marginal increment in the number of students participating in various events held within and outside the college, since the implementation of Mentorship Scheme.

6. Problem Encountered and Resources required: □ The institute being situated in rural area the students are not that much exposed to the current enhancements. To overcome this mentors play an important role by making them aware of the same. □ To mould the students' mentality towards improvement in their personality without hampering academics was a difficult task.

Best Practice - II

1. Title of the Practice: Students Associations of Department and College.
2. Goal
 - To develop personality, communication skill, awareness about different types of entrance exams and interview, and to develop skill to qualify various competitive exams.
 - To develop awareness about sports and physical fitness.
 - To conduct useful courses and technical seminars workshops as per the current industry need.
 - To organize various activities like programming contest, technical quiz, debate competition, personality contest etc. that will not only enhance the technical abilities and knowledge among the students, but also builds the overall personality skills of the students.
 - To organize events like project competition, paper presentations etc.
 - To develop awareness about participation in

different events held at state, national and international level. 3. The Context: • It is platform for students to participate actively in the activities conducted by students' associations. • Each department of college has its own students' association and college also has its own students' association called as students Council. • These associations are working on methods of for the students, by the students and from the students means these associations are made by students for students development. • In the association students may works as volunteer on post such as Chairman / president, Vice President, Joint Secretary, treasurer, Ladies representatives and Executive members. They are selected from students by inviting applications from interested students. 4. The Practice: • After formation of association the activities are planned for a semester. While making plan different suggestions from student and faculty members are considered in a meeting. For every activity a team is formed including a faculty and students. The team is responsible for conducting the activity. • Students associations are planning for at least some activities each year and such activities are sports, technical activities and non technical activities. 5. Evidence of success: • The Students who are participating in activities are appreciated with certification and prize. Attendance of participating students is maintained with the signature of event incharge. Notices has been circulated through college about conduction of activities so that students can take active part in activities. • Students involvement: Students are actively participating in different activities, it makes a positive improvement in students like personality development, communication skills, management skills, programming skills etc. • Teamwork: As students and faculty work together, it builds team spirit among students. It also helps for faculty since students are having innovative ideas. Bonding is formed among students and faculty. It helps in many perspectives for students. 6. Problems Encountered and Resources required: • Students are hesitating to take part in activities because of lack of confidence and daring. • Feeling burden of academics to participate in activities. • To motivate students for participation is challenge

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

<http://www.msec.org.in/bestpractices.php>

7.3 - Institutional Distinctiveness

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

This institution was started with a vision to repute and rare creativity in providing quality education with technical endeavour and research opportunities of very high standards to the students, who in turn shall contribute to the advancement of the society and human

kind. The establishment of our Institution in this backward area helps the rural populace to take up engineering education with affordable cost. Nearly 50 students are first generation graduates. The Institute gives top priority to the welfare of the students who are in need of financial assistance. Every year fee waiver / concession on tuition fee / hostel fee / transport fee is given to economically backward students on need basis. Most of our students are from the Government Schools of nearby districts who have completed their 2 through Tamil medium. Our institution provides a special concentration on language skills to them in order to compete with other students. For this, the institution provides special training focusing on LSRW (Listening, Speaking, Reading and Writing) skills in English with the aid of soft skills training by both our faculty and external agencies. Excellent library facilities provide wide stream in engineering knowledge and also helpful for competitive examination such as GATE, GRE, TOFEL, IELTES etc. The institute also aims at vitalizing the learning skills of the students with a focus on futuristic demands, vitalizing teaching learning process, ICT, Human Values, and functional relationship with all the stakeholders for the holistic development of the individual and society. The institute aims at instilling a sense of self-discipline and accountability among students and developing a respect for democratic, ethical, and moral values. The department associations motivate the students to participate in conferences, guest lectures, workshops organized throughout the year, through which the students are exposed to the outside world. Our placement cell train the rural students with additional care and prepared them to face their campus interviews effectively. Training is imparted to the students from their second year onwards in soft skills and technical skills. The academic and placement processes are complemented with a diverse array of opportunities provided to the students in enhancing their knowledge beyond academics. Placement from various private and IT sectors are provided for the better job opportunity there by helping the improvement of social status of students from the rural background. Students are encouraged to develop their own projects through funding from the management and state government which help them to explore their creative ideas. The institution encourages participation of students in inter collegiate events whatever it may be so that the students can equip themselves in a better way to face any situation in future with a high confidence and competence. Apart from the service to the rural students, our institute extend the service to the rural society through various forums regularly. Through the NSS of our Institute the following programmes / events are conducted: • Swachh Bharat Abhiyan (SBA)/Clean India Mission camp in local villages • Blood donation camps • Eye camp • Veterinary camp •

Provide the weblink of the institution

<http://www.msec.org.in/uploads/institutiondistinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

• NBA accreditation for Mechanical, Civil, Chemical and EEE Departments will be achieved. • To increase more number of Industry innovative projects in and start ups through MSEC-Institute Innovation Council. • To enhance student's placement with higher package in dream corporate like CTS, TCS, WIPRO etc. • Implementation of Automation System in all aspects such as Academic and Administration. • To stabilize the faculty strength on par with the expectation of industry requirements. • To work towards getting minimum 10 patents filed every year. • To aim at a minimum of two international collaborations for research / short-term courses/ student-faculty exchange/joint conferences/workshops.