



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr. P.Balamurugan
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04333294400
Mobile no.		9965520311
Registered Email		principal@mountzion.ac.in
Alternate Email		iqac@mountzion.ac.in
Address		Mount Zion College Of Engineering And Technology, Lena Vilakku, Pilivalam Post
City/Town		Pudukkottai
State/UT		Tamil Nadu

Pincode	622507																		
2. Institutional Status																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	Self financed																		
Name of the IQAC co-ordinator/Director	Prof. A. Taksala Devapriya																		
Phone no/Alternate Phone no.	04322320801																		
Mobile no.	8056544077																		
Registered Email	iqac@mountzion.ac.in																		
Alternate Email	principal@mountzion.ac.in																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://www.mzcet.in/aqar.php																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mzcet.in/naac/iqac/academic_cal.html																		
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>B</td> <td>2.45</td> <td>2014</td> <td>10-Dec-2014</td> <td>09-Dec-2019</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.45	2014	10-Dec-2014	09-Dec-2019
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	B	2.45	2014	10-Dec-2014	09-Dec-2019														
6. Date of Establishment of IQAC	28-May-2008																		
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															

Lecture on Machine Learning	08-Mar-2019 1	100
Lecture on Mobile Application Development	03-Dec-2018 1	60
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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
Nil	Nil	Nil	2019 0	0
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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)

Submitted IIQA for cycle 2

Received Best NSS award

Placed 282 students in reputed companies

Organised 13 staff development programmes

Our students have participated and were selected for SIH 2019 competition

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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	Achievements/Outcomes
To enhance teaching learning process	<ul style="list-style-type: none"> • Value added course, certificate course and 24 hours workshop are conducted • Internet/Library hour are introduced to enhance the knowledge of the students • Daily class report is collected to monitor the teaching learning process • Innovative teaching learning methods are implemented • Moodle and Google Classrooms has adopted to help all the students for effective teaching learning process • Lecture videos by faculty in the institution are recorded and uploaded in Youtube and link is provided in the website • Academic activities were audited once in three months • Academic Feedback was collected and reviewed • 100 percent utilization of digital modules in all department • Regular result analysis for each internal test was conducted and the remedial actions were taken time to time • Academic Calendar prepared before the commencement of the new academic session to ensure effective implementation of the curriculum continuous evaluation. • Orientation Programme was organised for Students to make them aware of different curricular cocurricular activities of the college.
To strengthen faculty development	<ul style="list-style-type: none"> • Pedagogical training programmes teaching faculty was conducted • Most of the faculty members have attended online FDP and refresher courses • Common skilldevelopment programme was conducted for the supporting staff
To enhance student participation	<ul style="list-style-type: none"> • Students from CSE department received cash prize in SIH 2019. • Special counselling hour was included (2 hours/week) to mentor the students • Above 60% of Students were participated in various activities through regular review(Dept. Wise and mentors wise)
To strengthen the Reasearch activities	<ul style="list-style-type: none"> • Reasearch center was granted by affiliating University for ECE and CSE • 53 papers were published in UGC approved journals

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Name of Statutory Body</td> <td style="width: 50%; text-align: center;">Meeting Date</td> </tr> <tr> <td style="text-align: center;">Governing Council</td> <td style="text-align: center;">11-Jun-2018</td> </tr> </table>		Name of Statutory Body	Meeting Date	Governing Council	11-Jun-2018
Name of Statutory Body	Meeting Date				
Governing Council	11-Jun-2018				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	25-May-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>List of Modules: • Planning and Development • Administration • Finance and Accounts • Student Admission and Support • Examination Planning and Development: Design of teaching learning process, monitoring of syllabus completion, collection and analysing of feedback reports</p> <p>Administration: Latecomers followup, Student outpass approval, staff attendance through biometric login, staff leave form request</p> <p>Teaching Learning Process: At the beginning of every semester faculty members plan for their course objectives for the syllabus prescribed by Anna University ,the course outcomes using eCampus software</p> <p>Staff attendance: Staff attendance is maintained through Biometric login.</p> <p>Finance and Accounts: All financial transactions, Students can pay their fees through digital mode</p> <p>Library: The library is automated with Integrated Library Management System(ILMS).It is accessible to all faculty members and students through Internet/Intra net. Using eCampus software, users can search the collection of books by title, author, publisher etc., and to know the circulation status and contact details</p> <p>OPAC(Online public access catalog)service is made available to</p>				

all staff and students to save time in locating the books required. Student's progress: All the exam schedule, marks scored and its grievances are addressed through a MZ eCampus mobile app. Student Admission and Support: Admissions followup, students can view their attendance, timetables, fees, outpass request etc

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

• Advance planning of curriculum delivery based on the academic calendar of the institution in line with the schedule of the affiliating University. • Schedule of department activities is prepared which includes industrial visits, guest lectures, workshops and need-based training. • Department plans three value-added courses, two certificate courses and three field visits every academic year • Guest lectures and seminars are organized through expert lectures from Academia and industry experts. • Course allotment for the faculty is based on the competency matrix, teaching experience and past academic performance. • Allocation of the subject, subject presentation, preparation of lesson plan and laboratory manual are reviewed before the commencement of a semester. • The course file is prepared by faculty members, which includes PO-CO mapping, lesson plan, notes of the lesson, hand notes and presentations, question bank, previous year university question papers, laboratory manuals, seminars and guest lecture plans, assignment and tutorial plans, and student-centric activities. • Content beyond the syllabus is identified and reviewed before the commencement of a semester to bridge the curricular gap. • The time table is prepared by the time table coordinator, with slots allotted for value-added courses, Internet/library/sports and counseling along with regular theory and laboratory courses as per the norms of the University. • Schedule for internal, external and project reviews are prepared based on the curriculum as per the academic calendar. • The class committee is formed for all classes during the first week of every semester and the meetings are scheduled and conducted thrice in a semester to fine-tune the teaching-learning process. • Principal and HoDs periodically monitor the progress through eCampus software and daily Class reports. • Remedial classes are planned for slow learners. • Feedback from stakeholders is collected. Academic feedback for all courses is collected and remedial measures are taken from time to time. • All the academic activities right from planning to execution are effectively carried out through an academic software eCampus.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
AUTODESK REVIT ARCHITECTURE 2015	-	04/08/2018	5	Employability	Yes
AUTOCAD 3D	-	04/08/2018	5	Employability	Yes

CIVIL	-	20/03/2019	5	Employability	Yes
PROGRAMMING IN C	-	16/06/2018	5	Employability	Yes
PROGRAMMING IN VISUAL DATABASE	-	01/10/2018	5	Employability	Yes
PYTHON PROGRAMMING	-	27/08/2019	5	Employability	Yes
MATLAB	-	24/09/2018	5	Employability	Yes
PCB WIZARD	-	20/02/2019	5	Employability	Yes
ARDUINO	-	10/09/2018	5	Employability	Yes
INTERNET OF THINGS	-	26/03/2018	5	Employability	Yes
ARDUINO	-	02/08/2018	5	Employability	Yes
AUTOCAD	-	02/01/2019	5	Employability	Yes
NXCAD	-				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Civil Engineering	01/06/2018
BE	Civil Engineering	01/06/2018
BE	Civil Engineering	01/06/2018
BE	Civil Engineering	01/06/2018
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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 CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	01/06/2017
BE	Computer Science and Engineering	01/06/2017
BE	Electronics and Communication Engineering	01/06/2017
BE	Electrical and Electronics Engineering	01/06/2017
BE	Mechanical Engineering	01/06/2017
ME	Communication Systems	01/06/2017

ME	Computer Science And Engineering	01/06/2017
ME	Power Electronics and Drives	01/06/2017
ME	Structural Engineering	01/06/2017

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

	Certificate	Diploma Course
Number of Students	250	0

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
PERSONALITY ENHANCEMENT AND LEADERSHIP QUALITIES	01/06/2018	55
ENGLISH PROFICIENCY AND DEVELOPMENT TRAINING	01/06/2018	103
APTITUDE AND COMMUNICATION LIFE SKILLS	01/06/2018	105
APTITUDE AND EMPLOYABILITY SKILLS	01/06/2018	145
AUTCAD 2D 3D MODELING	01/06/2018	69
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1.3.2 – Field Projects / Internships undertaken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Civil Engineering	36
BE	Computer Science and Engineering	40
BE	Electrical and Electronics Engineering	40
BE	Electronics and Communication Engineering	66
BE	Mechanical Engineering	41
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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

• Institute has strong mechanism to collect feedback from all stakeholders in formal and informal ways. • Each Department collects feedback from all students. • Academic feedback is obtained thrice a semester from students through eCampus software and Class Committee Meeting (CCM). • The student may express their opinion and rating about overall feedback form which covers the questionnaire about faculty performance, teaching process and infrastructure facilities. • These feedbacks are analyzed and conveyed to each faculty for the improvement. • Based on the feedback, if any immediate remedial action needed is decided by the principal, academic co ordinator and concerned teachers. • Informal feedback is taken up by the principal and the heads. The important issues raised by students associated with Faculty performance and teaching learning is reviewed. • Strategic planning for the future semesters is also prepared based on the feedback. • The feedback about individual teachers is shared with them to help them identify their strengths and weakness as perceived by the students. • In addition to this, suggestion box is kept in where students may drop their suggestions on administrative and infrastructure development? • The valuable suggestions are taken into consideration and appropriate actions are taken • Parental feedback is collected in formal ways during the parents meeting and Feedback from the alumni is collected during alumni meet. • The feedback is analysed for the strengths and drawbacks. The suggestions for improvement are taken into consideration for the following academic year during strategic planning. • Feedback from the industry specialist is collected and based on their suggestions value added courses are organized.

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	CIVIL ENGINEERING	120	80	74
BE	COMPUTER SCIENCE AND ENGINEERING	90	102	92
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	90	46	38
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	60	50	42
BE	MECHANICAL ENGINEERING	120	117	109
ME	COMMUNICATION SYSTEMS	18	6	3
ME	COMPUTER SCIENCE AND ENGINEERING	18	5	2
ME	POWER ELECTRONICS AND	18	5	2

	DRIVES			
ME	STRUCTURAL ENGINEERING	24	5	3
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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	1675	51	105	13	0

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
118	118	8	40	40	9

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

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

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

Yes. Our institution practices student mentoring system to help students for achieving their personal goals, and for gaining greater insight into their lives. The institution offers periodical effective mentoring with the mentor-mentee ratio as 1:15. The institution allocates two hours per week explicitly as mentoring hour in the time table. Apart from this, students can meet the mentor at any time. Mentors encourage the students to participate in curricular, co-curricular, extracurricular and extension activities.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1726	118	1:15

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
118	118	0	27	11

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. JAYSON KEERTHI JAYABARATHAN	Associate Professor	CSI

2018	Mrs. VIVIAN JAYSON R.	Assistant Professor	CSI
2018	Dr. ROBINSON S.	Associate Professor	REVIEWER AWARD
2018	Ms. ROHINI P.	Assistant Professor	CSI
2018	Ms. RAMADEVI M.S	Assistant Professor	CSI
2018	Ms. RAMYA B.	Assistant Professor	CSI
2018	Dr. ROBINSON S.	Associate Professor	DC MEMBER
2019	Mr. JAGADEESH N.	Assistant Professor	SMART INDIA HACKATHON MENTORSHIP BY MHRD
2019	Ms. RAMADEVI M.S	Assistant Professor	SMART INDIA HACKATHON MENTORSHIP BY MHRD
2019	Dr. ROBINSON S.	Associate Professor	REVIEWER AWARD (SPRINGER)
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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	104/105/106/14/	ODD 2018	17/10/2018	13/01/2019
ME	403/405/413/415	ODD 2018	17/10/2018	13/01/2019
BE	104/105/106/14/	EVEN 2019	22/03/2019	22/06/2019
ME	403/405/413/415	EVEN 2019	22/03/2019	22/06/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Being an affiliated Institution, we strictly follow the norms mandated by the University. All the internal assessment schedule and question paper pattern are informed through circular and MZ eCampus mobile app in well advance. Students Assesment marks are displayed in the notice board and MZ eCampus app. The evaluation procedure for both theory and laboratory exams are kept transparent. The teacher issues answer scripts of the periodical tests to students and internal laboratory examinations with his / her comments. Discrepancies reported by any student are verified and necessary action is taken. Students who have absent for the internal test are followed closely and retest are conducted. Students' internal test marks are entered after the internal examination and students can view their marks in their portal. At the end of

each semester, students are assessed internally based on marks secured in two internal tests and one model examination. Internal marks are strictly based on the internal assessment test and the attendance secured by the student. Lack of attendance of students is calculated and made transparent to the students in the student login portal of the eCampus and displayed in department notice board. The same is also informed to the parents periodically.

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

All the university-related grievances are transparently addressed by the institution exam cell in a smarter way for the students in a easily approachable manner All the exam schedule, marks scored and its grievances are addressed through MZ eCampus mobile app. Student name correction request is progressed as suggested by the university and continuously being followed by exam cell discrepancy in Anna University question paper is observed by concern subject handler and the same is also notified to Anna University then and there. Malpractice procedures in examinations are strictly followed, and it is reported to the affiliated university immediately. Student revaluation applications and its last date also informed to students and photocopy of the answer scripts are also progressed and monitored within time-bound. Withheld of results for a particular student is dealt with duly at the right time. Date of Birth correction and certificate photo correction also addressed to university and rectified then and there. The students are practiced and well trained for appearing online examinations through the demo sessions organized by our internal examination cell. The evaluation process of our institution is made transparent and the specific evaluation methods for a particular class are elaborated in the class committee meetings.

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.mzcet.in/naac/copomapping.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
103	BE	CIVIL ENGINEERING	145	83	57.24
104	BE	COMPUTER SCIENCE AND ENGINEERING	78	64	82.5
105	BE	ELECTRICAL AND ELECTRONICS ENGINEERING	49	37	75.51
106	BE	ELECTRONICS AND COMMUNICATION ENGINEERING	76	64	84.2
114	BE	MECHANICAL ENGINEERING	129	96	74.42

403	ME	COMMUNICAT ION SYSTEMS	13	13	100
405	ME	COMPUTER SCIENCE AND ENGINEERING	5	4	80
415	ME	POWER ELECTRONICS AND DRIVES	1	1	100
413	ME	STRUCTURAL ENGINEERING	21	21	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://mzcet.in/naac/sss_2018_19.pdf

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
Nil	0	Nil	0	0
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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
Lecture on Machine Learning	CSE	08/03/2019
Lecture on Mobile Application Development	CSE	31/12/2018
Lecture on Cyber Security	CSE	28/04/2018
Lecture on Recent Trends in Civil Engineering	CIVIL	23/03/2018
Lecture on Career Opportunities in DRDO	ECE	16/03/2018
Lecture on AWS IoT	CSE	09/03/2018
Lecture on Research paper writing	CIVIL,CSE,ECE,EEE,MECH	16/02/2018
Lecture on Internet of Things for Industrial Applications	ECE	09/02/2018
Lecture on Research Proposal Writing	CIVIL,CSE,ECE,EEE,MECH	11/01/2018

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
Nil	Nil	Nil	31/05/2019	Nil
No file uploaded.				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	01/06/2018
No file uploaded.					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	58

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

Name of the Department	Number of PhD's Awarded
ELECTRONICS AND COMMUNICATION ENGINEERING	1

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	CIVIL ENGINEERING	5	0.12
International	COMPUTER SCIENCE AND ENGINEERING	8	1.03
International	ELECTRICAL AND ELECTRONICS ENGINEERING	2	1.59
International	ELECTRONICS AND COMMUNICATION ENGINEERING	34	2.95
International	MECHANICAL ENGINEERING	5	0.19
International	SCIENCE AND HUMANITIES	4	0.95
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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
CIVIL ENGINEERING	2
COMPUTER SCIENCE AND ENGINEERING	4
ELECTRONICS AND COMMUNICATION ENGINEERING	55
MECHANICAL ENGINEERING	10
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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
AN EXPERIMENTAL INVESTIGATION ON STRUCTURAL BEHAVIOUR OF GEOPOLYMER CONCRETE IN BEAM - COLUMN JOINT	REGINA MARY I	INTERNATIONAL JOURNAL FOR RESEARCH DEVELOPMENT IN TECHNOLOGY	2018	0	Mount Zion College of Engineering and Technology	0
EXPERIMENTAL INVESTIGATION ON THE FLEXURAL STRENGTH OF HYBRID REINFORCED CONCRETE MADE WITH M-SAND	MOHAMED RAMEEZ RAJAS	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	Mount Zion College of Engineering and Technology	0
EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF COARSE AGGREGATE BY USING COCONUT SHELL AND FINE AGGREGATE BY USING M-SAND IN CONCRETE	REGINA MARY I	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	Mount Zion College of Engineering and Technology	0
EXPERIMENTAL INVESTIGATION ON THE BEHAVIOUR OF CONCRETE BEAM WITH MINIMUM STIRRUPS AND STEEL	MOHAMED RAMEEZ RAJAS	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	Mount Zion College of Engineering and Technology	0

FIBER UNDER STATIC AND IMPACT LOADING						
EXPERIMENTAL STUDIES ON THE MECHANICAL PROPERTIES OF GEOPOLYMER CONCRETE	REGINA MARY I	INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS	2018	0	Mount Zion College of Engineering and Technology	0
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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
AN EXPERIMENTAL INVESTIGATION ON STRUCTURAL BEHAVIOUR OF GEOPOLYMER CONCRETE IN BEAM - COLUMN JOINT	REGINA MARY I	INTERNATIONAL JOURNAL FOR RESEARCH DEVELOPMENT IN TECHNOLOGY	2018	0	0	Mount Zion College of Engineering and Technology
EXPERIMENTAL INVESTIGATION ON THE FLEXURAL STRENGTH OF HYBRID REINFORCED CONCRETE MADE WITH M-SAND	MOHAMED RAMEEZ RAJAS	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	0	Mount Zion College of Engineering and Technology
EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF COARSE AGGREGATE BY USING COCONUT SHELL AND FINE	REGINA MARY I	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	0	Mount Zion College of Engineering and Technology

AGGREGATE BY USING M- SAND IN CONCRETE						
EXPERIMENTAL INVESTIGATION ON THE BEHAVIOUR OF CONCRETE BEAM WITH MINIMUM STIRRUPS AND STEEL FIBER UNDER STATIC AND IMPACT LOADING	MOHAMED RAMEEZ RAJA S	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY	2018	0	0	Mount Zion College of Engineering and Technology
EXPERIMENTAL STUDIES ON THE MECHANICAL PROPERTIES OF GEOPOLYMER CONCRETE	REGINA MARY I	INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS	2018	0	0	Mount Zion College of Engineering and Technology
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Presented papers	33	39	0	0
Attended/Seminars/Workshops	0	0	110	0
Resource persons	0	5	30	0
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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
Road Safety Week Rally	Rotaract club	15	175
Phase I "Unnat Bharat Abhiyan (Survey)"	NSS Unit	7	76
Phase II "Unnat	NSS Unit	8	82

Bharat Abhiyan (Survey)"			
World Population Day Awareness	Youth Red Cross	9	95
National Children's Science Congress - adopted government high school students	NSS, Rotaract, YRC and RRC	30	295
Road Safety Awareness Rally	NSS, Rotaract, YRC and RRC	15	150
Legal Awareness Camp	Pudukkottai District Legal Governing Council	25	252
Road safety and Efficient Fuel Consumption	NSS	5	30
Child Adoption and Sexual Harassment	Association with District Child Protection Unit	15	157
Blood Donation Camp	Rotaract club	7	75
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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
World Blood Donar's Day	Blood Donation award	Tamilnadu Government and Tamilnadu State Blood Transfusion Council Chennai	75
Smart India Hackathon	Smart India Hackathon 2019	Ministry of HRD and AICTE	4
Campus cleaning program	Certificate of Appreciation	Government Higher Secondary School, Lembalakudi	15
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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
Swachh Bharat	NSS/GH, Thirumayam	Campus cleaning program	2	15
Awareness Programme	NSS/Panchayt Union, Pilivalam	Awareness on plastic	3	15

Awareness Marathon	NSS/Transplant Authority of Tamil Nadu	Organ Donation Awareness Marathon	2	28
Swachh Bharat	NSS	Campus cleaning program	2	25
Awareness Programme	Red ribbon club and Youth Red cross, MZCET	Anti-Drug abuse Awareness Programme and pledge for RRC Volunteers	102	1414
Awareness Programme	Awareness Programme	Covid-19 Awareness Programme and Pledge for All the students	102	1414
Awareness Programme	Awareness Program On Disaster Management "Mock Drill"	Awareness Program On Disaster Management "Mock Drill"	2	236
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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
Industrial Visit	180	Self	1
Inplant training	105	Self	5
On-the-job training	67	Self	7
Training Program	3	Self	6
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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
Industrial Visit	Industrial Visit on Radio Astronomy	Radio Astronomy center, OOTY	16/03/2019	16/03/2019	45
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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
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			students/teachers participated under MoUs
G Tech Solutions, Pudukkottai	01/06/2018	Inplant Training, Internships	36
Blue arc builders, Karaikudi	01/06/2018	Inplant training, Site Visit, Field project	149
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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
130	119.12

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
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	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
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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
e-Campus, OPAC	Fully	4.3	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	33055	59	796	3	33851	62
Reference Books	1169	3	20	1	1189	4
e-Books	0	0	0	0	0	0

Journals	767	8	0	1	767	9
e-Journals	187	2	0	0	187	2
CD & Video	225	1	0	0	225	1
Weeding (hard & soft)	0	0	0	0	0	0
Others(specify)	30	1	0	0	30	1
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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
Mrs.T.Shanthi	8051 Microcontroller	MOODLE	03/05/2019
Ms.A.Anitha	BioGas Plant	MOODLE	03/05/2019
Mr.M.Vinoth Kumar	Computer Integrated Manufacturing	MOODLE	03/05/2019
Mr.K.Ramachandran	Digital Signal Processing	MOODLE	03/05/2019
Mrs.D.Elavarasi	Distributed Systems 1 Distributed Systems 2	MOODLE	03/05/2019
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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	724	664	0	0	0	48	12	100	0
Added	0	0	0	0	0	0	0	0	0
Total	724	664	0	0	0	48	12	100	0

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
Media Centre	https://mzcet.in/ict.php

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
60	55.89	238.3	229.5

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)

Maintenance plays such an important role in ensuring an institutions effectiveness. A campus-wide maintenance and utilization system ensures effective use of the existing facilities, such as classrooms, computers, and laboratories. Maintaining the physical facilities is the responsibility of the Maintenance Team, made up of talented faculty to provide supervision and lab technicians to provide maintenance from all the departments. As part of their responsibilities, the maintenance team is responsible for ensuring continuous power supply, maintaining equipment such as general lighting, the power distribution system, solar panels, and water pumps. The request of maintenance is initiated by the lab technicians to the HOD. The nature of maintenance is observed by HOD and the maintenance team will attend, diagnose the fault and rectify it or else suggest for external services from suppliers or other service providers. If the service does not come under guarantee/warranty/free service period, quotations are received from the supplier as well as from two other companies. Comparative statement will be prepared and submitted to the Principal with the recommendations of the respective HOD. Cleaning of vehicles, air filing and small repairs are undertaken by the transport department inside the college. Major repairs are carried out by external automobile garages.

<https://www.mzcet.in/naac/proceduresandpoliciesformaintenance.pdf>

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	Merit scholarship	535	6870450
Financial Support from Other Sources			
a) National	First Graduate, BC/MBC, SC/ST (PMSS)	1177	39288175
b) International	Merit Cum Means scholarship	9	225000
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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
Guidance for competitive	01/06/2018	400	Mr. HAJAMYDEEN M, HEAD, PRINCETON

examinations			REVIEW, TRICHY.
Career Counseling	01/06/2018	235	Mr. MUTHU NILAVANNA, M.A., B.ED., PUDUKOTTAI
Yoga and Meditation	01/06/2018	330	Dr.SUNDRA VADIVEL BALASUBRAMANIYAN, RESEARCH ASSISTANT PROFESSOR, DEPARTMENT OF RADIATION ONCOLOGY, MEDICAL UNIVERSITY OF SOUTH CAROLINA, USA.
Remedial Coaching	01/06/2018	78	INTERNAL FACULTY
Soft skill development	01/06/2018	1390	INNATETALENT, CHENNAI
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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	Career Counselling	0	1335	0	0
2019	Preparation of Competitive Examination	30	0	3	0
2019	Placement	0	0	0	282
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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
1	1	5

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
Mount Zion College of Engineering and Technology	517	282	Nil	0	0

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	Civil Engineering	MOTHER TERASA COLLEGE OF ENGINEERING TECHNOLOGY	ME STRUCTURAL
2019	2	B.E	Civil Engineering	ALAGAPPA UNIVERSITY	MBA
2019	1	B.E	Electronics and Communication Engineering	ALAGAPPA CHETIAR GOVERNMENT COLLEGE OF ENGINEERING & TECHNOLOGY	ME-OPTICAL COMMUNICATION
2019	1	B.E	Computer Science	ALAGAPPA UNIVERSITY	MBA
2019	1	B.E	Mechanical Engineering	KAUNAS UNIVERSITY OF TECHNOLOGY, KAUNAS, LITHUANIA	MBA

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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	1
Any Other	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
Anna University Zone 16 Foot ball	Institution Level	16
Annual Sports Meet Track Field events	Institution Level	60
Annual Sports Meet Game events	Institution Level	60
Pudukottai district kho-kho Camp women	Institution Level	11
Pudukottai district kho-kho Camp Men	Institution Level	11

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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
2018	GOLD - ROLL BALL	National	1	Nil	911715103044	S.R.VAIT HISHKUMAR
2018	SILVER FOOTBALL	National	1	Nil	911716114085	S.SRIRAM SOUNDAR

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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)

Internal Quality Assurance Cell (IQAC), Library , Subject , Syllabus coordinators are the dissemination of information on various quality parameters of higher education. Class representative, Attendance, Lab ,Time table coordinator, Class Committee(CC) representative, Exam, Carrier guidance cell, Gate, NPTEL, Feedback and Daily class report coordinators are an important role in ensuring the highest quality learning experience for students. Co-curricular, Extra-curricular Events, Facility, Sports and Cultural coordinators are responsible for assisting students and executing successful events. Notice board and Website/Magazine/News coordinator are provide details of the program and schedule and all other necessary information of upcoming events. Facility, Hostel and Canteen coordinators play important role of regarding food quality and other general facilities. Discipline /Anti Ragging Committee, Students / Womens grievances redressal Cell's responsibility is to ensure that the college campus is free from ragging and eve-teasing. Industry Institute Interaction cell, Placement and Training and Department cell is to promote closer interaction between the academic as well as industries to make a broader linkage with the institution. Energy audit cell, Green campus cell to generate awareness regarding the necessity to shift focus on conservation of energy.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

517

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

90000

5.4.4 – Meetings/activities organized by Alumni Association :

- Annual Alumni meet was conducted
- Alumni interacted with our students and shared their valuable experience.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The top management, Principal, HoDs, Exam Cell In-charge/ Coordinator, faculty members, office superintendent, librarian and non-teaching staff and other various committees students and Stakeholders are actively participating in the overall development of the institution. DECENTRALISATION Implementation of the vision, mission and quality policy of the Institution is monitored by Governing Council. Principal assists the Management in making policies and taking decisions on setting academic and administrative goals and achieving them. Head of the Department monitoring all the activities and work progress of the department and commences department meetings, organize class committee meetings, mentor meetings and parent teachers meeting to review the progress of the students. HoD prepares the annual budget for the department which is approved by the Principal, Management and Governing council. The faculty members act as conveners or members of the various committee/cells of the institution and deploy the strategic plan of the institution. PARTICIPATIVE MANAGEMENT The students participate as member in Library advisory meetings and IQAC meetings of the institution. The Alumni mentorship programmes for students are arranged to impart knowledge about present day technologies and requirements of industries. In parent teachers meeting, parents suggest ideas for the improvement of the institution.

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	Once in 3 months, reviews related to quality in Academics, Research and in infrastructure development are conducted by the IQAC. Every month, Principal reviews the performance and gives feedback. Once in a week, HoD reviews works of teaching and non-teaching to ensure quality in all works done by the department. Our college is affiliated to Anna university. The institution follows diverse steps to ensure effective delivery and transaction of the curriculum. The Academic calendar chalks out the curriculum and extracurricular activities of the college. The departmental calendars are complemented by teaching plans allotting unit wise topics to be taught. The teaching faculty also maintain semester plan effective academic planning, implementation and review of the curriculum. Conventional mode of lecture is supplemented by seminars, special lectures, group discussions, field studies/visits, educational tours, project works, surveys etc to ensure a practical approach to the curriculum.
Teaching and Learning	<ul style="list-style-type: none"> The entire lecture classes are

equipped with SMART board. • All the faculty members are conducting OBE activities such as Think Pair Share, Group Problem Solving, Role Play, Poster presentation, Model making, demonstrative session etc., as a part of regular classes to make the students to participate and learn engineering in their cognitive domain of the brain in order to improve their engineering intelligence. • Remedial classes are conducted for needy students • E-contents such as E-book, e-journals and video lectures are made available to students • Industrial visits are arranged to get real time exposure • The IQAC of the college monitors and evaluates the quality of teaching learning by evaluating the quality of a faculty from the feedback system from students. After analysis of the feedback, necessary steps are taken to improve the quality of teaching learning process.

Examination and Evaluation

The semester examinations are conducted by the affiliating university. Internal examinations are conducted by the departments according to academic calendar. Retests are also conducted for Weak students and absentees. The marks obtained in the internal tests are intimated to parents. The answer scripts are shown to students so that they can understand the evaluation process. In addition, unit-wise assignments are given.

Research and Development

Research and Development cell encourages the faculty and students to actively involve in research. It circulates the notifications and procedures for funded Projects and encourages the faculty to engage in research work. Students are encouraged to do project work under the supervision of the faculty. R D Cell is organizing Research talk on a weekly basis once in each department. Encourages the faculty members to undertake major and minor research projects and to organize seminars, workshops, conferences, etc. Motivates the staff members and PG students to publish papers in the peer reviewed journals.

Library, ICT and Physical Infrastructure / Instrumentation

Library: Institution has central as well as departmental libraries. The central library is equipped with

library management software and OPAC. Central Library has a collection of textbooks, magazines, newspapers etc, and also there is a provision of having e-books, e- journals and e-Learning, which covers a wide set of applications. The library has a book bank facility where students can borrow books and use them for the complete semester. ICT: The college has 40 ICT classrooms mounted with LCD projectors and audio systems to support animated presentations, educational videos and ten separate tutorial rooms with whiteboard facilities. Physical Infrastructure / Instrumentation: The whole campus has an Internet facility with adequate bandwidth (100 Mbps) for promoting The teaching and learning environment. Institution has an adequate number of seminar halls to conduct conferences, seminars and workshops, guest lecturers for faculty members and students as well. Institute has 298 computers, 45 printers, 5 special multipurpose printing cum photocopying Machines and 8 scanners. Institution has two auditoriums (outdoor and indoor auditorium) with a seating capacity of 1200 and 300. The indoor auditorium is air- conditioned, with audiovisual facility and power backup.

Human Resource Management

The teaching faculty members are recruited as per the AICTE norms. Faculty are encouraged to go for Orientation programmes, Refresher courses, Short term courses and to participate in seminars, workshops, conferences etc. Along with the teaching faculty the non-teaching staff members are sent for professional development training. All faculty members are involved in different activities of the college. The institution sincerely works to prepare the students for their higher studies. The foundation is made at the UG level. The students are encouraged to participate in seminars, special lectures, extension activities of NSS and NCC, study trips etc

Industry Interaction / Collaboration

Institute Innovation Council is constituted to highlight innovative projects carried out by institution's faculty and students. Innovation and Incubation Centre is formed to promote

	<p>the innovative ideas of the students.</p> <p>The institution has an MOU with top institutes including Linton University, Malaysia and NIT Seimens, Thiruchirappali to facilitate the Internship and industrial visits. For arranging Campus interviews institution has collaboration with EinNel Technologies.</p>
Admission of Students	<p>The college prospectus and forms are available online. The Govt. reservation policy is followed. Free facilitation centre is run during Admission period to support the parents and students</p>

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

E-governace area	Details
Planning and Development	Design of teaching learning process, monitoring of sullabus completion, collection and analysation of feedback reports
Administration	Late comers follow-up, Student outpass approval, staff attendance through biometric login, staff leave form request
Finance and Accounts	All financial transactions, Students can pay their fees through digital mode
Student Admission and Support	Admissions follow-up, students can view their attendance, timetables, fees, outpass request etc
Examination	Online examinations are conducted, internal marks are calculated through eCampus

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	Mrs.Ammu S	International Seminar on Power structure in English Language and Literature at Urumu Dhanalakshmi College, Trichy.	Nil	1500
2018	Mrs.Elavarasi D	One day NBA awareness workshop on	Nil	1682

		outcome based education and accreditation		
2018	Dr. Robinson S.	One day NBA awareness workshop on outcome based education and accreditation	Nil	1682
2018	Mr. Muthu Kumar R.	One day NBA awareness workshop on outcome based education and accreditation	Nil	1682
2018	Mr. Mohan E.	One day NBA awareness workshop on outcome based education and accreditation	Nil	1682
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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	One day workshop on Mentoring for Mentors	Nil	05/07/2019	05/07/2019	81	Nil
2019	One day workshop on Enhancement of Student Mentoring Systems	Nil	19/06/2019	19/06/2019	58	Nil
2019	One day workshop on Behaviour Stress Management Strategies	Nil	18/06/2019	18/06/2019	51	Nil
2018	Nil	One day workshop on Road	16/03/2018	16/03/2018	Nil	30

		Safety and Diesel Austerity				
2018	Nil	One day workshop on Arduino and its Application	21/08/2018	21/08/2018	Nil	5
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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
One day Workshop on Mentoring for Mentors	81	07/05/2019	07/05/2019	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
0	118	0	48

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • 50 tuition fee concession for the employee and their family members. children who are all studying including in our sister institution. • Employee Provident Fund • Subsidised/free transport facility. • 100 Registration fee, traveling allowance for attending career enrichment programs. • Medical leave with salary for employee incurred with accidents. • Personal loan, festival advance and salary advance from the management in case of emergencies. • Management sponsored recreational tours for the • Staff recreation club. • Closed User Group mobile phone 	<ul style="list-style-type: none"> • Employee Provident Fund • Subsidised/free transport facility. • Medical leave with salary for employee incurred with accidents. • Personal loan, festival advance and salary advance from the management in case of emergencies. • Management sponsored holiday tours for the staff and their family members. • Staff recreation club. • Free uniform for certain grade employees (only for drivers and sweepers). • Postal facility. insurance 	<ul style="list-style-type: none"> • Sports scholarship • Merit scholarship • Accidental insurance • first aid • 24x7 internet facilities • Mentoring/Personality development programmes • Encourages student participation in sports /cultural /social events/NSS/NCC • Annual students cultural functions • Book bank for financially poor

facility. • Awards and rewards for meritorious contributions. • Ten days on-duty for participation in Faculty Development programmes and research activities. • Twenty days on-duty for Anna University examination duties. • Twelve days of casual leave and four days earned leave. • 90 days of maternity leave. • 20 days of summer vacation and 10 days of winter vacation leave. • Staff quarters, staff canteen, Bank, ATM and post office facility on the campus. • Group accidental insurance. • Postal insurance facility.

6.4 – Financial Management and Resource Mobilization

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

The financial resources of the institution are managed in a very effective manner and all accounts are managed in systematic computerized software. A complete budget is prepared every year well before the academic year begins. The institution prepares the annual budget. Annual Budget for the respective department is prepared by the respective HoDs. The budget submitted by the HoDs is carefully scrutinized by the Head of the Institution and all the changes are made wherever necessary and submitted to the management. INTERNAL AUDIT: The internal audit is a continuous process. Qualified Internal Auditors have been permanently appointed and the accounts team does the verification of all payments, receipts journals vouchers of the transactions cash books, ledger account review that are carried out in each financial year on an accrual basis system. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. EXTERNAL AUDIT: The external auditor appointed by the college performs audit of the financial statements of the college after the end of each financial year, finally they certified the income expenditures, balance sheet and prepared notes to accounts.

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
Nil	0	Nil
No file uploaded.		

6.4.3 – Total corpus fund generated

500

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	IQAC
Administrative	Yes	M/S Annamalai Associates	Yes	Governing Body

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

The Parent - Teacher Association arranges meeting to offer suggestions for further improvement and development works to be carried out for the growth of the department. The parents interact with the faculty advisors and Heads of the Departments to know about their ward's academic performance. 1. Suggestion: Technical improvement by means of value-added courses. Action Taken: Various value-added courses are planned and executed. 2. Suggestion: Need an enriched learning atmosphere. Action Taken: Use of ICT increased. 3. Suggestion: Special hours for fostering the students in 360 degree Action taken: Planned two hours per week for counselling. 4. Suggestion: Need of classes for competitive exams Action taken: Started classes for GATE students.

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

One day workshop on Behaviour Stress Management Strategies on 18.06.2019 One day workshop on Road Safety and Diesel Austerity on 16-03-2018 One day workshop on Arduino and its Application on 21.08.2018

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

Internal Quality Assurance Cell(IQAC) continuously reviews the quality of the teaching-learning process and provide a timely suggestion for the quality improvement Regularly organising FDPs Processing for NAAC cycle 2

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
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
2018	Value Added Courses	01/06/2018	01/06/2018	31/05/2019	1645
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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	08/03/2019	08/03/2019	238	12

2019	Nill	12	13/02/2019	2	IMPART-Special Project Conference	Our college took initiative along with Pudukkottai District School Education Department in organizing programmes for the Government school teachers to enhance their technical skills.	1500
2019	1	Nill	08/01/2019	1	Gaja cyclon releaf fund donation programme	Our College staff members came forward to offer helping hands to the Gaja Cyclone kit to 79 families. The staff members of our college contributed literally Rs.1.18 lakhs to the affected families.	79

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

Title	Date of publication	Follow up(max 100 words)
Rules and Regulations for Students, Teaching Staff Non-Teaching Staff	01/01/2008	This document has been developed by Mount Zion Christian Educational Trust in order to

familiarize students with Mount Zion College of Engineering Technology and provide information about studying conditions, key policies, procedures, and benefits affecting students at Mount Zion College of Engineering Technology.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Republic day	26/01/2019	26/01/2019	220
Anti Drug day	26/01/2019	26/01/2019	850
Organ Donation Awareness day	27/11/2019	27/11/2019	28
Engineers day	14/09/2018	14/09/2018	1414
Independence day	15/08/2018	15/08/2018	250
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Tree plantation • Paperless office • Plastic free campus • Recycled water for maintaining green campus • Rainwater harvesting facilities

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice: The Strategy for Advanced Learners Objectives of the Practice: ? The Departments organizes various seminars, conferences to provide the opportunities for the students to bridge with the academic and leading industry experts. ? Students are intellectually stimulated with various advanced projects, challenging assignments, 24 hours workshops, value added courses, certificate courses and webinars. ? Motivating the advanced learners to enrich their career the soft skills training is offered by Training and placement cell. ? The webinar series is designed for training the students who are innovators, desire to learn more and gain the benefits greatly not only from the experts, also through the networking opportunities towards making their career choices. The Context These Online webinar series provide participants with a unique learning experience with the topics on their relevant domain with necessary seminars which are focused on providing an opportunity for participants to learn first-hand information from the field experts. Each webinar is aspiring board to a deeper understanding of technology and its myriad applications and potential for innovation. The Practice This practice enables the students to immerse themselves in the most impactful technology areas existing today during webinar. Some of the domains featured include: ? Design and fabrication ? Current trends in manufacturing industry ? How to face the COVID issues ? 3D Printing ? Recent trends in Automobile ? Identification of welding defects ? Engine assembly and dismantling ? Analysis of mechanical components by ANSYS ? Programming of e-yantra robotic kit ? Rebar detailing and modeling ? Visual database programming ? Involvement of alumni, industry person for webinar All the departments conducted number of webinars related to their department technology developments. The webinar topics and content were framed by the industrial experts based their experience and latest technology developments. Evidence of Success ? Students from the department of

Computer Science Engineering participated in the Smart India Hackathon (SIH) 2021 grand finale held from 1st to 3rd August, 2021. The project titled "BH60M and BH100 with Electronic Transmission" has won winner title and cash prize of Rs. 1,00,000/- among various national level selected participants. ? A batch of students from Electrical and Electronics Engineering and Mechanical Engineering has been selected for finals of TOYKATHON 2021. ? Six batches of student's Ideas were pitched in TNSI 2020 regional level ideation and boot camp organized by EDII, Chennai.

Problems Encountered and Resources Required

- Time management between the webinar sessions was little bit challenging.
- Network connection issues faced by the rural students.

Title: In plant training and Internship opportunities

Objectives of the Practice:

- The ultimate aim of in-plant training is to provide proper industrial training for rural area students.
- As part of the industrial exposure, our institution planned to invite industry people to interact with students and arrange industrial visits regularly and also create the opportunity to the students in-plant training in various industries.
- There are very few industries, only offering in-plant training to the students and that too very small in numbers. Sometimes it was very challenging for students to get industrial exposure. Few students found it is very difficult to spend amount for travel and accommodation.
- The Industry and Institute Interaction cell will assist the student those couldn't get training from industries. Based on the students field of interest and location in-plant training will be arranged in the industries.

The Context Inplant training is a short duration training course for students to develop their skills and get industrial knowledge which will help you to understand what is actually happens in industry. Inplant training is important for engineering students as it gives industry exposure to them while studying. Inplant training adds credits to the students during their placements. They provide inplant training and internships for the students of engineering and arts. Its usefulness varies depending on which branch you are, and which company you did In-plant Training.

The Practice We decided to send our students to them for industry training during weekends and vacations. Through this, mechanical engineering students can understand the functioning of vehicles and various operations of the service industry. Similarly, civil engineering students able to get exposure in construction right from the planning phase. Sending students to electrical contractors and consultants, the electrical engineering students get exposure in their area of operations. We planned to expose computer engineering students in web designing and small computer software development for the businesses in our place. We approached the people and explained our ideas. Almost all of them have accepted for training students. Some automobile service companies were willing to pay some stipend to our students. First, we planned to send students at least for ten days to industries so that all the students get a chance. With the support of our faculty, our computer science students developed some excellent software and websites for small business in our area.

Evidence of Success

- Nearly thousand students went for training for a minimum period of 10 days in that year. During that time, our civil engineering students got exposed to a highway project in our area and bridge construction by big contractors.
- 75 of students placed in various core industries.

Problems Encountered and Resources Required Due to pandemic situation we not able expose all the students for Inplant training.

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

<https://www.mzcet.in/naac/documents/Best%20Practices.pdf>

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 Institution has taken initiative to enhance the technical learning experiences of the rural based students through series. Every year nearly 1000 students benefited from various polytechnic colleges and nearby village schools. For Diploma students Technical Workshop series is organized by all the department in the unique topics of Project through Simulation, Circuit Wizard, STAADPRO, Raspberry Pi programming/ Interfacing, Solid works and 3D Printing. Project through simulation deals with projects virtual system modeling (VSM) blends mixed mode SPICE simulation. Circuit Wizard software known for its excellent circuit design, simulation, PCB design and CAD/CAM manufacturing interface. STAAD Pro is a structural analysis and design software that is used for analyzing and designing structures like buildings, towers, and bridges. Raspberry Pi is a board computer capable of running Linex and a whole host of applications. Solid works is a 3D modeler and utilizes a parametric feature-based approach to create 3D models and Assemblies. 3D printing is the construction of a three-dimensional object from aCADmodel. For nearby village students organize a soft skill development program by Computer Science and Engineering department and English department. Microsoft Office contains a word processor, a spreadsheet program and a presentation program. A special communication classes were conducted by English department every year during their vacation period of the schools.

Provide the weblink of the institution

<https://www.mzcet.in/naac/documents/7.3.1.pdf>

8.Future Plans of Actions for Next Academic Year

Teaching and Learning • To improve overall result by 10 • To increase the number of University rank holders • To initiate industry based projects • To develop e-content Research • To increase research publications significantly • To get funded research projects • To get patent rights • To involve active interdisciplinary projects • To organize seminar on IPR and ethics • To organize a international level conference IQAC Functioning • To take Post Accreditation Initiatives • To prepare and submit the AQAR on the NAAC portal • To encourage IQAC members to attend at least one IQAC conference/ seminar • To conduct regular IQAC meetings • To apply for ATAL Ranking of Institution on Innovation Achievements (AARYA) • To apply for NIRF ranking Others • To achieve good position in affiliated colleges of Anna University • To improve communication skills of students • To provide special coaching for GRE/TOEFL/CAT/GATE