Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**THEEM COLLEGE OF ENGINEERING**
Name of the head of the Institution	**Dr Aqueel Ahmed Shah**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02525-284909**
Mobile no.	**7770043830**
Registered Email	**info@theemcoe.org**
Alternate Email	**principal@theemcoe.org**
Address	**Chilhar Road**
City/Town	**Boisar Palghar**
State/UT	**Maharashtra**
Pincode	**401501**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Semi-urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**M.A.Gulbarga**
Phone no/Alternate Phone no.	**02525284910**
Mobile no.	**7744812677**
Registered Email	**naaccord@theemcoe.org**
Alternate Email	**ayubgulbarga@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://theemcoe.org/attachments/AQAR_18-19/AQAR_Report.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://theemcoe.org/attachments/AQAR_18-19/Academic_cal.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
2	**B+**	**2.61**	**2019**	**28-Mar-2019**	**27-Mar-2024**

6. Date of Establishment of IQAC	**02-Aug-2017**

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
Proposed HWWE International conference	**10-Dec-2020 03**	**200**
Proposed THEEM-National	**13-Jan-2020**	**300**

Conference	02	
Feedback from all stake holders	13-Apr-2019 01	500
Mentor mentee program	12-Apr-2018 01	1431
Orientation programm	28-Jul-2018 01	139
Attendance Monitoring App	09-Jul-2018 138	1431
Internal academic Monitoring	23-Aug-2018 01	7
IQAC Meetings	21-May-2019 01	9
[View File](#)		

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
Theem college of engineering	NIL	nil	2018 0	0
[View File](#)				

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 :	**4**
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)

Attendance Monitoring App based

Proposed THEEM National Conference 2020 (Jan2020)

Proposed HWWE International Conference (Dec-2020)
Inter Class Talent Show Competition
Quality Improvement Through FDPs and STTPs

[View File](#)

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
IQAC Meetings	Quality Practice and Academic Culture Improvement
Internal Audit Monitoring	Teaching Quality Improvement
Attendance Monitoring Program App Based	Attendance and Pyunctuality improvement
Orientation Program	Awareness about Profession and branch technology
Mentor Mentee Meet	student personality improvement
Feedback from all stake holders	Helps plan addon course and curriculm development
Proposed to conduct National in January and HWWE International conference December	Research and quality cilture
Parent Teacher Meet	Learning Culture
IPR and EDP work shops	Idea Knowledge and Patenting Awareness
Proposed to conduct FDPs	Quality and Knowledge Improvment
[View File](#)	

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
cdc	07-Nov-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	2020

Date of Submission	24-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	At Theem, a lease software Credit Exam Desk based VB tool with SQL back end function is used in exam cell for it activities. Admin section at office usesTally ERP and Tally aspire software, In the library Soul software is being used, and Attendance Monitoring App based system is being out sourced on trial for Academic year 201819.

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

Theem College of Engineering is affiliated to University of Mumbai so it follows the curriculum prescribed via the university. The effectiveness of the curriculum is measured in terms of Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (Cos). The academic calendar of the institute and its time desk and semester format guides the faculty for nice delivery of lectures, and conducting practical and tutorials. In case of any shortcoming in it, the fundamental remedial work will be carried out with the coordination of group of workers and students. The faculty monitors students' teaching-learning with continuous evaluation pattern and they also introduce add-on courses related to new trends when it is required. The institute conducts curriculum enrichment programmes, like Industry Institute Interaction Programme, Seminars, and Intellectual Property Rights (IPR) Session for college students and guides them for mastering enterprise required skills. Development/Planning: 1) As a part of deployment strategy for effective teaching-learning process, HODs submit term plan to Principal before a month of commencing the semester as follows: 1. The upcoming semester's subject allocation and load distribution in Curriculum Implementation and Assessment Report (CIAR). 2. The dates of academic activities and important events in academic calendar 2) Institute academic calendar is referred for preparing departmental time-table before the commencement of the semester. 3) Each faculty maintains CIAR, subject file and Mentor-Mentee file with planning and completion of lectures, practical's, remedial classes and load adjustment (if any). 4) Faculty plans the delivery of educational lecture supported to learner centric techniques such as MOODLE, ICT, NPTEL Lectures, Case-studies, Brainstorming, Assignments, and other teaching aids 5) Faculty prepares teaching notes for modules, question banks, hand-outs, test papers, quiz and experiment write-up for effective teaching-learning process. Deployment/Implementation: 1) Lectures and practical are executed as per the time-table and it is evaluated by Internal Quality Assessment Committee (IQAC) with the help of HOD and Internal Academic Monitoring Committee (IAMC). 2) The educational loss in the subject due to leave of the faculty members is compensated through extra lectures and its information are maintained. 3) The faculty members try to achieve PEOs, POs and COs of respective programmes. 5)

The faculty makes the lectures interestingly and effectively in conversational method of teaching which motivates student's involvement, interaction, team activities, class work, and self-learning realisation. 6) For upgrading the knowledge of faculty, institute always supports them for attending STTP/FDP/Workshop/Conferences. 7) The institute improves teaching-learning process through stakeholder's feedback and encourages students to take part in competitive projects. 8) The institute signs MOUs with various industries for the benefit of students.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
IOT	NIL	24/08/2018	5	Employabil ity	NIL
Google SEO	NIL	02/08/2018	5	Employabil ity	NIL
Vocational Educational Training (Auto CAD Electrical)	NIL	23/02/2019	5	NIL	Skill Development
Vocational Educational Training(Des ign of Three Phase Transf ormer)-N Kenin Transformers	NIL	19/12/2018	5	NIL	Skill Development
ANSYS	NIL	02/01/2019	5	Employabil ity	NIL
NPTEL	NIL	01/08/2018	48	NIL	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	Automobile Engineering	02/07/2018
BE	Mechanical Engineering	02/07/2018
BE	Electrical Engineering	02/07/2018
BE	Electronics & Telecommunications Engineering	02/07/2018
BE	Computer Engineering	02/07/2018
BE	Information Technology	02/07/2018
BE	Civil Engineering	02/07/2018
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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	Automobile Engineering	02/07/2018
BE	Mechanical Engineering	02/07/2018
BE	Electrical Engineering	02/07/2018
BE	Electronics & Telecommunications Engineering	02/07/2018
BE	Computer Engineering	02/07/2018
BE	Information Technology	02/07/2018
BE	Civil Engineering	02/07/2018

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

	Certificate	Diploma Course
Number of Students	259	Nil

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
Soft skill and training	19/07/2018	270
	View File	

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	Automobile Engineering	40
BE	Mechanical Engineering	45
BE	Electrical Engineering	11
BE	Electronics & Telecommunications Engineering	9
BE	Computer Engineering	2
BE	Information Technology	2
BE	Civil Engineering	72
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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 institute made available of Feedback Form/Format that includes faculty feedback, alumina feedback, student feedback, course exit survey, etc. for the stakeholder's feedback. The faculty feedback which is received from the students for the respective course is taken twice in a semester on various teaching-learning aspects which is analysed by HOD with corrective measures if any shortcoming is found, the respective faculty will be informed for further improvements. The course exit survey and the program exit survey are taken to analyse the understanding capability of the students. The feedback about the infrastructure facility is taken from final year students at the end of the program and it is analysed for further improvement of lab facilities, if any. The feedback from the parents is taken by interacting with them during Parent Teacher Meet. The alumni, the final year students and the faculties' feedbacks are taken with suggestions for improvement of the curriculum and the syllabus revision. The same is conveyed to the Chairman, Board of Studies of the respective programme of University of Mumbai. The feedback of recruiters is also collected which is discussed in meeting of training and placement cell. We have also installed a suggestion box which is accessible to all the stakeholders so that they can give their feedback/suggestions at any time, if any. Internal Academic Monitoring Committee (IAMC) conducts the exercise of student feedback every year which is measured with parameters like Subject Knowledge, Presentation, Teaching-aids Used, Methodology, etc. Later, the management analyse the data for taking appropriate decisions to improve the infrastructure and enhance the quality of teachers. The alumni feedback and exit feedbacks are taken from all students. From these forms we are able to make out whether the proper teaching-learning process is in place. Also, this process enables the institute to improve in the areas where ever necessary. In every semester, junior faculties' evaluation is processed by senior faculties, subject experts and inform to the faculties for enhancing their skills. The feedback is key tool which triggers in continuous improvement in the quality of education, students' needs and industry requirements. Also, the feedback is received from experts and external examiners on quality of our students. The mechanism of obtaining feedbacks on a regular basis highly motivates and energizes to bring in the appropriate timely changes in the system which provides strong links to employee satisfaction and productivity. As the most effective leaders have good listening and emotional awareness, our institute leaders actively seek the feedback to enhance their performance.

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	Automobile Engineering	60	14	14
BE	Electrical Engineering	60	8	8
BE	Civil Engineering	60	4	4
BE	Mechanical Engineering	120	43	43
BE	Electronics and Telecommuni cation	60	2	2

BE	Information Technology	60	33	33
BE	Computer Engineering	60	42	42
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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	1431	Nill	99	Nill	Nill

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	Numberof smart classrooms	E-resources and techniques used
99	99	3	31	2	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. In our students mentoring system each teacher is assigned with a group of students. Each teacher mentor maintains average 20 student mentees to care and cater their needs and supports their thought process. The mentor regularly meets their mentees outside class hours and maintains the mentor-mentees book of each student to have a comprehensive record of their personal information, academic performance, co curricular and extracurricular activities. Further, the mentor-mentee system helps to assess and counsel the slow and advance learners based on their mid and end terms test performance. By analysing their results, the institute plans and initiates remedial and bridging courses.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1431	99	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
99	99	Nill	10	6

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	Rajesh Patil	Assistant Professor	NPTEL Certification on DIP
2018	Rajesh Patil	Assistant Professor	NPTEL Certification on DTSP
2019	Dr.N.K.Rana	Professor	Session Chair for Multicon-19 National level conference
2019	Syed Amjed Ali	Assistant Professor	Reviewer of computers and electrical engineering journal
2019	Dr.Najmuddin Aamer	Professor	Reviewer of journal of emerging technology and innovative reasearch
2019	Dr.Najmuddin Aamer	Professor	Reviewer and Advisory committee member of national conference NCRTSE 2019

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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	322224510	III	17/12/2018	06/02/2019

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

Board of Studies of each program of University of Mumbai informs all the institutes about the major reforms in Curriculum, Examination Pattern and Syllabus Scheme through orientation programs. The Principal discus about these reforms in IQAC and the same will be informed by Head of Departments to their faculty in Department Advisory Board (DAB). The parents and students are made aware of the evaluation process through orientation programme before commencement of the semester. The process of Continuous Internal Evaluation is implemented through mid and end term tests, assignments, tutorials, laboratory performance, quizzes, seminar, project activities and semester examination. Rubrics are formulated for assessment of laboratory performance, assignments, project activities and grades/marks are assigned. It brings transparency in assessment. The student's performance is assessed and recorded in Curriculum Implementation and Assessment Report (CIAR) on a continuous basis throughout the semester for their development and it will be reported to the parents in parent-teacher meet. The institute have been adopted Outcome Based Education (OBE) in which the attainment of outcomes is important to understand whether

the student or learner has attained what is expected from them and it will be used to improve the teaching-learning experience in particular for continuous quality improvement.

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

The calendar of academic activities is charted in synchronization with University Academic Calendar. The academic calendar foretells about tentative dates of all the activity and events to be conducted and monitored throughout the semesters. The academic calendar contains plans for the academic year including curricular and co-curricular activities according to the availability of teaching days as per the university norms. The academic calendar of odd and even semesters is prepared prior to the commencement of the semester by the Principal and Exam Controller in coordination with IQAC as per the university academic calendar. The implementation of the academic calendar is done by HODs and monitored by Principal. The academic calendar includes schedule of curricular transaction, mentor-mentee meet, parents meet, assessment, technical events, mid and end term tests, submissions, list of holidays, extracurricular activities and possible tentative period of seminars, workshops and guest lectures. The academic calendar also helps to prepare timetable for programme level and college 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)

http://theemcoe.org/course-degree.php?dept=comp

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
322260210	BE	Automobile Engineering	33	33	100
322237210	BE	Electronics and Telecommunication Engineering	28	22	92
322224510	BE	Computer Engineering	41	41	100
322224610	BE	Information Technology	29	27	93
322261210	BE	Mechanical Engineering	143	130	91
322219110	BE	Civil Engineering	75	70	94
322229310	BE	Electrical Engineering	76	64	85
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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)

<div align="center">http://theemcoe.org/attachments/AQAR_18-19/SSS.PDF</div>

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	365	Haji Jamaluddin Thim Trust	0.15	0.15
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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
Seminar on Embedded/IoT	Electrical Engineering	20/08/2018
Workshop on IOT	Information Technology	24/08/2018
Expert Lecture on Risk Assesment in Construction	Civil Engineering	29/08/2018
Guest lecture on Artificial Intelligence.	Information Technology	11/09/2018
Seminar on Leadership building	Institute	16/10/2018
Design of Single Phase and Three Phase Transformer	Electrical Engineering	11/10/2018
FDP on FEA for Engineering application using ANSYS software	Automobile Engineering	24/12/2018
Training on FEA for Engineering application using ANSYS software	Automobile Engineering	02/01/2019
Guest lecture on Commercial Vehicle Chassis and Body	Automobile Engineering	07/03/2019
Effectuating of Machine Design	Automobile Engineering	11/03/2019
Automotive Engine Managment System	Automobile Engineering	11/03/2019
Seminar of Emerging Trends in Telecom Industry	Electronics telecommunication Engineering	22/03/2019
Python workshop for teachers and research scholars NMEICT-IIT	Institute	22/06/2019

BOMBAY			
Nuclear Physics and Thermal Engineering	Mechanical Engineering	08/02/2019	
Seminar on Automative Management System	Electrical Engineering	11/03/2019	
Together We Can in association with TMA (Tarapur Management association)	Institute	12/10/2018	
Commercial Law and Intellectual Property Rights in association with TMA (Tarapur Management association)	Institute	07/06/2018	
Workshop on Leadership Development	Electrical Engineering	07/07/2018	
Guest lecture on Software Training Program on Estimating costing	Civil Engineering	23/07/2018	
Seminar on Latest Trend in Automobile	Mechanical Engineering	27/07/2018	
Seminar on MEP (Mechacal Electricity and Plumbing)	Mechanical Engineering	02/08/2018	
Google SEO Workshop	Information Technology	02/08/2018	
Seminar on Service Operation-Service Quality Standards	Automobile Engineering	06/08/2018	
Industry perspective of .NET	Information Technology	11/08/2018	
Career in IT industry	Information Technology	14/08/2018	
Seminar on Process Automation PLC/SCADA/DCS for Electrical	Electrical Engineering	13/08/2018	
Workshop on Recent Technologies in Automotive world	Automobile Engineering	14/08/2018	

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
SOLAR DRYER	ADESH MARAL,SAGAR YADAV,NIKHIL SAHU	VORTEX 2018,ICT Mumbai	18/10/2018	SOLAR DRYER
[View File](#)				

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
Theem Entrepreneurship	Mr.Abdul Rehman	Self Theem COE	3D Printing	Additive Manufacturing	21/01/2019

Start up Cell	Gujrati ,Mr.Yash Dhanak		**Service**	**service**	

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	**0**	**0**

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

Name of the Department	Number of PhD's Awarded
UG Programs-Not applicable	**Nill**

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	**Automobile Engineering**	**9**	**5.8**
International	**Information Technology**	**5**	**5.8**
International	**Mechanical Engineering**	**1**	**5.87**

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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
Mechanical Engineering	**1**
Information Technology	**6**
Automobile Engineering	**8**
Computer Engineering	**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
Active Four Wheel Steering	**Shakir, Shaikh Mohammad Mahadik, Shashank Singh, Praveen Sawant, Abhishek Sayyed, Sarjeel**	**--**	**2018**	**1**	**Theemcoe**	**1**

Design Fabrication of Reverse Gear Box	Ansari, Ahmed Kumar, Ravi Shanker Shukla, Purnend Bane, Jayesh Khan, Wasim	International Journal of Recent Trends in Engineering and Research. ISSN	2018	0	Theemcoe	Nill
Raw Material Recycling Using PLC SCADA	Banda, Rushikesh S Shinde, Aditya G Giri, Govind B Sheetal, Mrs Kulkarni	International Journal of Mechanics and Solids	2018	0	Theemcoe	Nill
Blister Testing in MATLAB	Saxena, Neha Vishnu, BhosaleMangesh Suresh, SalianShivraj Amit, Khandelwal	International Journal of Computer Science Trends and Technology (IJCST)	2018	2	Theemcoe	2
Raspberry Pi based home automation using Wi-Fi, IOT Android for live monitoring	Rathod, Prashant K hizaruddin, Syed Kotian, Rashmi Lal, Shubham	International Journal of Computer Science Trends and Technology (IJCST)	2018	0	Theemcoe	Nill
Hardware realization of neural network based controller for autonomous robot navigation	Aamer, Najmuddin Ramachandr an, S	2017 International Conference on Computing Methodologies and Communication (ICCMC)	2018	0	--	Nill
Investigation of Aerodynamic Forces on Vehicle using CFD Technique	Kushwaha, Deepak B C haurasiya, Vikas V Raees, Mohd	--	2018	0	Theemcoe	Nill

| Aerodynamic analysis of vehicle using CFD | Chaurasiya, Vikas V Kushwaha, Deepak B Raees, Mohd | International Journal of Recent Trends in Engineering Research | 2018 | 0 | Themcoe | Nill |
| Automated billing cart | Lambay, Muhib A Shinde, Abhishek Tiwari, Anupam Sharma, Vicky | International Journal of Computer Science Trends and Technology (IJCST)-Volume | 2018 | 3 | Theemcoe | 3 |

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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
Drain Waste Water Cleaner	N Sall, CMZ Sadique, P Gawde, S Qureshi, S Singh	Global Journal of Research In Engineering	2018	1	7	Theemcoe
Jute Fiber-PP Bio-Composite: State Of Art, Low Investment, In-House and Manual Preparation of Injection Moldable Bio-Composite Granules	MA Gulbarga, SB Burli	International Journal of Scientific and Research Publications	2018	1	5	--
Neural Networks Based Adaptive Approach for Path Planning and Obstacle Avoidance for	N Aamer, S Ramachandran	International Journal of Research in Computer Applications and Robotics …	2018	3	7	--

Autonomous Mobile Robot (AMR)						
Usability trends and access of Online Social Network by Indian population and its analysis	MA Devmane, NK Rana	2015 International Conference on Nascent Technologies in the Engineering	2018	1	1	Theemcoe
Detection and prevention of profile cloning in online social networks	MA Devmane, NK Rana	International Conference on Recent Advances and Innovations in E ngineering	2018	1	4	Theemcoe
Exposure fusion for concealed weapon detection	Ekta M Upadhyay, NK Rana	2nd International Conference on Devices, Circuits and Systems	2018	1	2	Theemcoe
Privacy Issues in Online Social Networks	MA Devmane, NK Rana	International Journal of Computer A pplication s	2018	1	1	Theemcoe
Classifi cation of brain cancer using artificial neural network	Dipali M Joshi, NK Rana, VMi Misra	2nd International Conference on Electronic Computer Technology	2018	2	16	Theemcoe
Drowsy driver ide ntificatio n using eye blink detection	Raees Ahmad, JN Borole	International Journal of Computer Science and Inform ation Tech nologies	2018	1	7	Theemcoe
Alpha	Shah	Internat	2018	1	1	--

activity in EEG and intelligence	Aqueel Ahmed, D Elizabath Rani, Syed Abdul Sattar	ional Journal of Advanced Information 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
Attended/Seminars/Workshops	Nill	23	Nill	141
Presented papers	17	Nill	Nill	Nill
Resource persons	4	Nill	Nill	5

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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
various Activities	Various agencies and units	120	997

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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
Kerala Flood Donation	Appreciation	Tarapur Malyali Sangh,Boisar	48

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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 activites	Number of students participated in such activites
Various Schemes	multiple agencies	various activities	120	997

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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
various Activities	Students and teachers	multiple agencies	30

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 visits,internship,training	industrial visits,internship,training	multiple Industries and agencies	12/06/2018	07/07/2019	1087

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
TEC System	18/11/2018	Intership, Training, expert lecture,etc	2
N Kenin Transformers	14/12/2018	Training	46
TATA Consultancy Services	29/09/2018	Training	11
CADD CENTRE	06/03/2019	Training,expert lecture	25
MULTICON-W	22/02/2019	RESEARCH	54
SHIRSH TECHNOSOLUTION	06/03/2019	Training for Designing and Drafting of the Students	31
CISCO	05/01/2019	Training and Placement	Nill
MICROCHIP	05/01/2019	Training and Placement	Nill

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
30.8	30.79

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added

Seminar Halls	Existing
Others	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	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
soul2.0	Partially	2.0.0.12	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	17710	5697938	752	352514	18462	6050452
Reference Books	3580	1969000	134	73700	3714	2042700
e-Books	4789	Nill	1622	Nill	6411	Nill
Journals	106	224135	124	277077	230	501212
e-Journals	3	253359	3	255109	6	508468
Digital Database	4792	253359	1625	255109	6417	508468
CD & Video	1075	Nill	60	Nill	1135	Nill
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(specify)	Nill	Nill	Nill	Nill	Nill	Nill
View File						

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
Amit Nimbalkar	Finite Element Analysis	www.youtube.com	15/02/2019

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	645	12	645	1	2	4	7	50	0
Added	4	0	4	0	0	1	0	15	0
Total	649	12	649	1	2	5	7	65	0

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

65 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
Camera, microphone, smart classroom	https://drive.google.com/open?id=1_0HlDDT-C6j4__Krf96hXalj8SeZB-jP

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 incurredon maintenance of physical facilites
380.5	378.55	150.1	148.12

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)

The institute's marvelous infrastructure in 2.6 lakh sq. ft. area of 10 acres has state-of-art physical facility such as laboratories, machinery-shop, workshop, IT centres, excellence centres for academic development and for employability enhancement. The well-resourced library and learning resource centre, spacious ICT enabled classrooms, audio-video language studio for English language and soft skills development, fitness centre gym, yoga centre, indoor sports facility and playgrounds provides facility to students for improving their academicals, co and extra-curricular activities. All these supportive facilities are under the respective department management and a lab in-charge maintains the utilization and dead stock register of the lab. Maintenance Policy: Computer Resource Maintenance: The institute follows an "In-house Automated Online Maintenance System" which is developed by our students. This system maintains the record of the complaint till its resolution. General Maintenance: The up-keeping of campus infrastructure is carried out by experienced dedicated teams. A Centralized Maintenance Register (CMR) is available at storehouse. During the maintenance, if anything is required to be purchased, it shall be raised through requisition slip Breakdown Maintenance: The procedure of breakdown maintenance is depicted in the following flow-chart:which is shown in web link Preventive Maintenance: The Preventive Maintenance is carried out as per planned schedule under CMR Supervisor who

maintenance the corresponding records of services. The Preventive Maintenance ensures that all mechanical equipment and laboratories are in working condition as well as the following works: House Keeping and Garden Maintenance: The house-keeping team has several male and female workers to attend maintenance of the campus and the work is carried out as per their daily schedule. The schedule is planned into daily, weekly, fortnightly and monthly. Sophisticated gardening equipment is used for mowing and trimming the border herbs. Civil Maintenance and Miscellaneous: Major construction is done through suitable contractors. Periodic painting and white washing of building and labs, grounds maintaining, lawns and upkeep of plants. The dustbins are kept at different location in the campus to maintain neat and cleanliness. Machine and Equipment Maintenance: The Machine and Equipment are maintained periodically or as on when it is required. Steel and wooden furniture are maintained prior to beginning of odd and even semesters. Electrical Maintenance: The electrical maintenance team conducts maintenance drive of all power utilities twice in a year prior to the examination Library Maintenance: Once or twice in a year, the library advisory committee identifies and verifies damaged books. Then it prepares a list of the books for binding from outsources and forwards it to the Principal for approval. Sports Complex Maintenance: The contemporary sports committee maintains Indoor and outdoor sports stationary. It identifies and verifies the suitability of sports stationary for sport activities.

http://theemcoe.org/attachments/AQAR_18-19/Maintenance_Policies.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	SCHOLARSHIP AND FREE SHIP	756	23657512
Financial Support from Other Sources			
a) National	Jamiat Ulama Halal Foundation,Mumbai Suburban Halal Social Welfare Association,Suman Ramesh Tulsiani Charitable Trust,Jamiat Ulama E Relief Foundation,Suman Ramesh Tulsiani Charitable Trust,Gobindram Narang Doundation,Al Jamia Faqihat Ul Banat,Takshe	63	972570
b)International	0	Nill	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga , Meditation, Personal Counselling,Mentoring .	09/07/2018	1200	Treezec E Solutions PVT . Ltd,Mastek LTD,Suven Consultant,ACE software Solution,Google SEO Workshop, IOT by Robocart,Shirsh Design Solution Pvt Ltd,Goregaon-West,
[View File](#)			

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Students benefited by guidance for competitive examinations and career counseling offered by the institution	5	310	3	207
2019	Students benefited by guidance for competitive examinations and career counseling offered by the institution	6	270	11	244
[View File](#)					

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

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

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus	Off campus

Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
On Campus - Fabsol Tek,JSW Pvt Ltd,PCB Desi gnerSmart I Sysytem Pvt Ltd,Hexaware Technologies (Mainstreamt ek),In- Solutions Global Limit ed,Mastek,On e Aim Soluti ons,QAD,Taxo smart LLP,Wellness forever medicare pvt ltd.,Rupeese ed Venture Pvt Ltd,Robokar	284	163	Off Campus - eclerx,Geo rge Electric als,GM Modular Pvt Ltd,Goel Power,Grade Electricals Pvt LtdGsalc oextruction, KEPL,Kone El evator,Konst elee Engineers Pvt. Ltd,Lup inPolycab Ganesh Engg WorksLightin gs,Projexons ottech,S.KK Gupta Builders and liver,S.D.B	150	86
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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	6	B.E	All Department	Various University	Masters
2018	7	B.E	All Department	Various University	Masters
[View File](#)					

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

Items	Number of students selected/ qualifying
GATE	54
Any Other	3
GRE	1
TOFEL	2
[View File](#)	

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

Activity	Level	Number of Participants
Cultural 2	Institute Level	80
Sports 2	University Level	378

Competitions Junior Scientist 2	District Level	24

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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	winner	National	1	Nill	G.R.No.1 67154	Piyush Patil
2019	1st Runner up	National	5	Nill	153116	Raj Vish wakarma

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

In Theem College of Engineering, Student Council (SC) is formed every year, as per the rules and regulations of University of Mumbai. This council along with institute's administration helps in the process of development of personality of the students, organizational skills and career opportunities. The council's main objective is to provide a platform to students to express their opinions related to their studies and to suggest the requirements in the campus and it also learns how to represent the institute at university level. The student council has General Secretary, Deputy General Secretary, Sports Secretary, Cultural Secretary, Technical Secretary and Student Members and Coordinators. All of them play vital roles in their respective field to bring our institution up. They also organize college annual function Jashn-e-Theem and its activities such as Technical, Cultural and Sports on Collegiate as well as Inter-collegiate level. Even they take responsibilities to arrange Alumni Meet and celebration of Engineer's day, Cultural Days. Each and every programme is done by the concerned secretary with the coordination of the General Secretary and various student committees that makes the entire programme success. General Secretary invariably represents the students at the time of any student's fraternity and does discussion with chairing authorities. He and the specific domain expertise organize different events and make smooth functioning of it. At micro level, GS is responsible in monitoring class functioning or lecture scheduling by class/branch representatives. By following the University of Mumbai, all the departments have its own Class representatives (CR). Apart from these students, some students are enrolled for other committees such as NSS, College Magazine, E-Newsletter, Anti-ragging, Women Empowerment and Grievance Redressal Cell, etc. These committees deal with academic activities, programmes, student welfare, anti-ragging, campus cleanliness, etc. The Cultural Committee takes care of all intra and intercollegiate cultural events in the College including Singing, Solo Dance, Group dance, Ramp Burn, Debate, Rangoli, Best out of Waste, Poster Painting, Flower Decoration, Mehendi, etc. There are certain committees who support to organize First Year Orientation Programme, Independence Day and Republic Day as well as the following tasks: • To schedule cultural events for the academic year. • To prepare budget for all cultural events and take necessary steps for its approval. • To obtain formal permission from college authorities to arrange programme. • To inform members of staff and students about the event. • To arrange the venue and logistics. • To invite the Chief Guest and other dignitaries. • To arrange mementos for guests and gifts/certificates for the participants. Technical Committee takes

responsibility of organizing and monitoring the following events: Robo-war, Robo-race, Robofootball, Robo-blind race, Robo-fashion, Technical papers, Technical debate, Midas touch, Aqua booster, Angry birds, Green building, Power tower, Sudoku, Mind quest, Blind programming, Face the book, PC assembling, Web page design, Counter strikes, N.F.S, BRCYG, Junior scientist. The sports committee conducts all intra and inter collegiate sports such as Cricket, Volleyball, Football, Chess, Carrom, Girls throw ball, Athletics, Box cricket, Neon cricket, Tug of war, Badminton, Kabaddi, etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute is at verge of completion of a decade, it has conducted five alumni meet/association meetings till now prior to registration of Alumni Association. In the association meeting held on 16 December,2017, the unanimous decision has taken to form and register the alumni association and all alumni voted for it and then the body was formed. Theem alumina association is registered, the registration number is MAH/2139/2018/Thane on dated 15-12-2018. Alumni Association has the following objectives: Creating a dynamic link to forge a bond between Institute and Alumni Providing better wholesome education to students with the support of Alumni Enriching Theem in curriculum and professional career with Alumni's experience career with Alumni's experience Helping the institute to build "Theem Brand" Every year, the institute conducts Alumni Meet and Association Meet to provide alumni a platform for renewing the old bonds with Alma-mater. The institute invites entrepreneurs to take part and show path for industry required skills. The institute has Alumni Portal and Website to build a vibrant network with alumni and they can access day to day activities of the institute as well as alumni activities. These effective networks increases the number of alumni interacting with students.Each and every alumnus plays a significant role for the development of stakeholders as well as the.institute. They give their suggestion through feedback to enrich the teaching-learning process. The main objective of the feedback is to focus on assessment of curriculum improvement, infrastructure and facilities. The feedback is analyzed and forwarded to the concerned department for further improvement process. The alumni's contribution in financial and non-financial resources supports to fulfill the objective. The non-financial contributions of alumni are as follows: Providing perspective views on career awareness and career planning through presentation, expert lecture, seminar and workshop guide final year students for selection of industry oriented projects. The institute arranges guest lecture of alumni to identify and to make available of industry oriented academic curriculum and extra-curriculum activities. Alumni also suggest for enriching department laboratories to support industry required technology as well as good placement. Theem Alumni Association started to collect the financial contribution from alumni and the same will be deposited in its bank account after opening the account. The process will be completed within short period.

5.4.2 – No. of enrolled Alumni:

390

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

28700

5.4.4 – Meetings/activities organized by Alumni Association :

2

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institute ensures decentralization by delegating authority to different levels for participative management to have transparency in decision making which leads to good governance. The authority is decentralized from the top management to Principal then to HODs and faculty coordinators. The LMC, IQAC and AMC involve representations of management. These committees include faculty and students to carry out academic, administrative and project development activities which results in creating an ambience favourable to overall growth and to achieve the goals of the institute. i) AMC: The main purpose of AMC is to collect database to provide foundation for strategic plan of the institute. Objectives of AMC: 1. To review and monitor the academic activities of the department. 2. To ensure that the programme should remains competitive and relevant to the present context to enhance the contemporary and emerging issues. 3. To take consistent efforts to fulfil the industry expectation and academic curriculum. 4. To give feedback to IQAC regarding departmental activities. 5. To give feedback to HOD regarding any deficiency if found. Committee Hierarchy: AMC is headed by senior staff and supported by department level academic coordinators. The representative from each department acting as Departmental Academic Coordinator is the member of Internal Academic Monitoring committee. All coordinators are responsible in policy making process. Class teachers Mentors are pillars of AMC. All Teachers are involved in implementing AMC policy through IAMC. There are various subcommittees involved to carry out smooth conduction of academic activities like Time Table in-charge, Exam coordinator, Training and Placement Coordinator, Department MOODLE portal coordinator, Software Development Cell Coordinator etc. ii) Training and Placement Cell: Training and placement cell functions in dual mode i.e. Organising for campus placements and arranging for appropriate training to the students enhancing their employability. A separate training and placement officer takes care of training and placement activities in the campus. The support from each Department is provided by the departmental coordinator assigned for the same. The committee for Training and Placement comprises of the Director, all the Heads of the Department, TP Officer and Departmental TP coordinators. Together the policies are formed for kind of training to be imparted to the students of different departments and accordingly the training is provided. The coordinators maintain the database of the students as well as the relevant industries for the departments. The necessary contact is established with the industry people for getting the internships for the students. Additional expert lectures by the resource persons from industries and academia are organized for generic as well as specific technical training in the relevant fields for the students. Every faculty member is free to suggest and bring such resource person to the campus. The campus interviews are organized also the students are sent outside for the pool-campus activities organized in other Institutions. Alumni are also made to participate to establish and nurture industrial contacts through Alumni Association. Regular interaction between alumni members and students are made through association meet.

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	• Educational program structuring and improvement is chosen by the affiliating college. • Head and Faculty individual's interface with the college and give their perspectives identified with educational program improvement. • To guarantee that the educational plan is refreshed routinely • To have most extreme interest in the course structure amendment in the University • To continue getting persistent criticism from the Alumni, or Industrial contacts • To improve Industry contacts for getting the temporary positions/ventures • Change in association has gotten new course structure with CBCS • We consistently support our faculty for FDPs/Conferences and furthermore sort out FDPs for upliftment of Faculty. • Expert addresses from Industry/the scholarly world routinely composed. • Sensitization of understudies towards society is guaranteed
Teaching and Learning	• To make certain student centric teaching learning gadget. • To put together and Plan academic calendar earlier for each semester and reveal on ordinary basis. • To preserve the Students well informed approximately the entire time table and take feedback of students. • To increase the effectiveness, ICT enabled elegance rooms are provided • Continuous up-gradation of college is observed. • Students are encouraged to take part in numerous competitions and activities. Total personality development is focused. • We make certain non-stop improvement
Examination and Evaluation	• Continuous assessment is guaranteed for each semester with mid-semester assessments and two periodical tests notwithstanding normal University assessment • Submission of assignments and diaries is a piece of persistent appraisal. • The entire program is time bound holding fast to the scholastic schedule in simultaneousness with the College. • Transparent assessment, is guaranteed both in interior assessment or University Paper Assessment • University papers are surveyed with scanner tags. • Internal test papers are offered back to the understudies

	and arrangement is talked about. • The understudies additionally know subtleties of their accommodation execution accommodation execution with criteria and imprints got.
Research and Development	• Participation of faculty in FDPs/ Workshops/ Conferences is encouraged • Faculty is encouraged to publish papers and sponsored liberally to present the same at National andInternational levels • There is addition of 10 research publications in International journals and conferences this year. • It is compulsory to publish onenational / international journal papers before submission of B.E Project thesis. • Three candidates had started their startup company so far and Working as Entrepreneur.
Library, ICT and Physical Infrastructure / Instrumentation	Library committee includes representatives from each dept. The committee ensures procurement of books, journals and other requirement etc. Fully equipped library with automation facilities available. Library management through "SOUL" software/ Issue-return with bar-coding. Institute has Smart classrooms with additional Audio-Visual Room for effective Teaching-Learning. To support ICT enabled class room , Seminar Hall and online exam, Institute has dedicated 60 MBPS Internet lease line. Institute also has fully equipped laboratories as per AICTE norms as well as more than sufficient physical Infrastructure to complement Teaching-Learning process.
Human Resource Management	Institute has Human Resource management in place to cater all teaching, non teaching and support staff. Provident as well as Gratuity facility is provided according to EPF Act. Giving out Academic awards for meritorious students as well as faculties through transparent Process. Human Resource Management has transparent appraisal System. The institute conducts expert lectures, Seminar and development programs for all Staff members. Time flexibility for those who are pursuing Higher education is available.
Industry Interaction / Collaboration	Institute has structured Training and Placement cell to look after all placement related activities. Training and placement cell conduct Industry

	Institute Interaction program identify and invite industry experts to deliver content beyond syllabus and make students aware of challenges and engineering practices adopted by the industry. Training and Placement cell provide industry exposure to students through internships, industry visits, expert lectures by industry personnel through Collaboration and MoU with Industries. . Institute Engage alumni to enrich it's activities and enhance profile. Industry representatives are involved in DAB (Department Advisory Board) to bridge the gap between curriculum and Industry need.
Admission of Students	As Institute is affiliated to Mumbai Universities and governed by Directorate of Technical Education Maharashtra State. All admissions related activities conducted through Central Admission Process of Govt. of Maharashtra, Directorate of Technical Education. Through online centralized admission process on the basis of student's merit and reservation policy. Institute level admissions are directed through proper applications through advertisements in various newspapers. Admissions are effected according to merit. Institute also has CAP centre to cater local aspirants all over the Palghar district. Moreover Institute conducts various programs like career guidance, orientation programs for students studying in 10th and 12th to create awareness about technical education.

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

E-governace area	Details
Planning and Development	Planning and Development observed through Moodle
Administration	Through Soul, ASPIRE and Tally
Finance and Accounts	Tally ERP
Student Admission and Support	Online support created by DTE, Maharashtra.
Examination	Online website for exam cell :http://theemcoe.org/examcell.php and VIVA exam software

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/	Name of the	Amount of support

Year	Multiple Teachers	workshop attended for which financial support provided	professional body for which membership fee is provided	
2019	Multiple Teachers	various conferences, professional memberships, Training and workshops	Various bodies	36000
2018	Multiple Teachers	various conferences, professional memberships, Training and workshops	Various bodies	123500
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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	-	Workshop on ICT Level-II	04/12/2019	04/12/2019	Nill	23
2018	Workshop on Leadership Development	-	07/07/2018	07/07/2018	69	Nill
2019	Python Workshop for Teachers and Research Scholars in Association with IIT Bombay	-	22/06/2019	22/06/2019	21	Nill
2019	One day Workshop on Linux in Association with IIT Bombay	-	23/08/2019	23/08/2019	21	Nill
2019	One day Workshop on R in Association with IIT	-	09/11/2019	09/11/2019	11	Nill

2019	-	Workshop on Koha Library Automation in Association with IIT Bombay	09/03/2019	09/03/2019	Nill	10
2019	-	Workshop on ICT Level-I	07/09/2019	07/09/2019	Nill	21

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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
Multiple Programs	207	12/01/2018	09/11/2019	10

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
10	10	5	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund, Gratuity and financial support for upgradation	Provident fund and Gratuity	Insurance and Project assistance

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 audit conducted at regular intervals by institute's own internal audit system as well as the external agency. All transactions and vouchers of each financial year thoroughly checked and verified by internal audit team. Every year the external auditors verify and certify the entire Income and Expenditure and the Capital Expenditure of the Institute. Minor errors or omissions and commissions when pointed out by the audit team are immediately rectified and precautionary steps are taken to avoid such errors in future.

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
JSW Steel coated products Ltd, Medicos Books Aid, C.S. Pochee and sons	16500	Sponsorship against Magazine

6.4.3 – Total corpus fund generated
00

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	No	Nill	Yes	Director, Principal and IQAC coordinator
Administrative	Yes	Pravin D.Jain Co.	Yes	Director, Principal and Accountant

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

i) Parents-Teacher Meet- 25/08/2018 ii) Parents-Teacher Meet- 20/10/2018 iii) Parents-Teacher Meet- 23/2/2019 iv) Parents-Teacher meet- 27/4/2019

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

i) Workshop on Koha Library Auromation ii) Workshop on ICT level-I ii) Workshop on ICT level-II

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

i) National Conference, THEEM-2020 ii) International Conference- HWWE 2020 iii) NIRF Participation iv) Inclusion of Internal monitoring committee (IAMC) v) App based attendance monitoring and messaging vi) Mentor-Mentee System

6.5.5 – Internal Quality Assurance System Details

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

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	Workshop on Linux in association with IIT Bombay	25/06/2018	23/08/2019	23/08/2019	21
2019	Internal Academic Monitoring Committee	14/01/2018	09/01/2019	13/04/2019	1530
2018	Faculty Development Program on	25/06/2018	24/12/2018	28/12/2018	9

2018	FEA for Engineering Application using ANSYS Software				
2018	App based attendance Monitoring System	10/10/2018	09/07/2018	19/10/2018	138
2018	Mentor-Mentee System	14/01/2018	08/09/2018	27/10/2018	1431
2018	NIRF Participation	25/06/2018	24/12/2018	24/12/2019	1530
2018	Workshop on Leadership Development	25/06/2018	07/07/2018	07/07/2018	69
2018	Workshop on Commercial law and Intellectual Property rights in association with TMA	14/01/2018	07/06/2018	07/06/2018	63
2019	Python Workshop for Teachers and Research Scholars in association with IIT Bombay	25/06/2018	22/06/2019	22/06/2019	21

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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
Stress management and mental health	10/10/2018	10/10/2018	108	6
Introduction to Self Defence techniques and its demonstration	11/10/2018	11/10/2018	77	5

Group Discussion on "Teaching women self defence is the only way to reduce sexual assaults"	12/10/2018	12/10/2018	42	8
Seminar on "Oral Hygiene" on Occasion of International Women's Day ,2019	08/03/2019	08/03/2019	49	6
Seminar on "Laws of Women Safety"	15/03/2019	15/03/2019	80	6

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
0.53

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	3
Any other similar facility	Yes	Nill

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
2018	1	1	28/09/2018	1	Voters Awareness Programme	To empower the students and faculty of the college the right to vote	37

						and under stand the importance of voting.	
2018	1	1	29/09/2018	1	Organ Donation Awareness Programme (At ZP School Maan)	To make studens to aware of organ donation. Our NSS volunteers had provided them knowledge and explained the importance of organ donation.	35
2018	1	1	02/10/2018	1	Swachhata Abhiyan(At Betegaon)	To clean up the village and environment at surrounding. Our NSS volunteers cleaned the maximum area of village with their hard work. They took all the garbage away from the village and composted it in compost pit.	44
2018	1	1	06/10/2018	1	Antiplastic Campaign (Play at Ashram	To aware the students of school,	38

					School, Betegaon)	villagers about antiplastic drive.	
2019	1	1	24/06/2019	62	Facilitation centres (FC)	Facilitation Centre helps the people of nearby locality to submit their online admission form for the Engineering and Diploma admission.	426
2018	1	1	08/09/2018	1	Antiplastic Campaign(Rally in Boisar)	To raise the awareness against the use of plastic bags. Regarding this camapaign our NSS volunteers arranged one rally from Navapur Naka to Ostwal gate.	50
2018	1	1	17/09/2018	1	Ganesh Visarjan Traffic Control (Day 5)	As part of an innovative step to solve traffic woes during Ganpati Visarjan, the Boisar traffic police has teamed up	37

						with our NSS volunteers to manage the congestion	
2018	1	1	23/09/2018	1	Ganesh Visarjan Traffic Control (Day 11)	As part of an innovative step to solve traffic woes during Ganpati Visarjan, the Boisar traffic police has teamed up with our NSS volunteers to manage the congestion.	38
2018	1	1	24/09/2018	1	Swachhata Abhiyan(At Chinchani Beach)	To clean up the beach and environment in the surrounding area. Our NSS volunteers cleaned the maximum area of beach with their hard work. They took all the garbage away from the beach and composted it in compost pit.	52

| 2018 | 1 | 1 | 26/09/2018 | 1 | Antiplastic Campaign(Street Play) | An awareness campaign to discourage the use of disposable plastic products, particularly single-use plastic bags,cups and food containers. Our NSS students asks people to replace their single-use plastic products with reusable alternativescloth bags. | 50 |

[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	01/01/2018	Code of Conduct for Students and Teachers Theem COE maintains a common Code of Conduct and it is notified to all the students. It has been found out that the students are strictly following the Dress Code, Use of Identity Card and maintaining discipline in the campus. The Criteria laid down by the university regarding attendance is maintained. Rules for the Examination by the University and College have been followed by the Students. The management has prescribed certain rules regarding appointment,

	leaves, retirement and termination of service and it has been followed consistently. The staff also follows the code of conduct properly as prescribed regarding leave and attendance.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree Plantation	15/08/2018	15/08/2018	120
SPEECH BY EXPERT ON FUNDAMENTAL DUTIES AND CELEBRATION OF INDEPENDANCE DAY 15-08-2018	15/08/2018	15/08/2018	147
Seminar on Voters Awareness	28/09/2018	28/09/2018	41
Poster Painting Competition	28/09/2018	28/09/2018	17
Stress management and mental health	10/10/2018	10/10/2018	108
CELEBRATION OF REPUBLIC DAY 26-Jan-19	26/01/2019	26/01/2019	133
BEST OUT OF WASTE COMPETITION	14/01/2019	14/01/2019	20
Poster Painting Competition	15/01/2019	15/01/2019	17
Laws of Women Safety	15/03/2019	15/03/2019	86
[View File](#)			

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

Theem College of Engineering has taken many initiatives for solid waste disposal on the campus by making a container for dumping the dry waste. At the back of the playground, there are composite pits and the collected waste is placed in a pit for composting. In the case of Liquid Waste Management, all the collected waste chemicals from the laboratory are put in the containers and it is diluted with water before dumping. A septic tank is made in the campus used for Waste Water Treatment through the process of biological decomposition and drainage and safe disposal of wastewater.

Theem College of Engineering has taken the initiative to use renewable sources of energy by using solar panels on street lights. The college is situated in a rural area there is lots of problem of electricity cut-off, by using solar panels we have taken an initiative to step towards the eco-friendly environment.

Eco-friendly Practices ? Anti-plastic Awareness (8th September 2018) ? Swacchata Abhiyaan (2nd October 2018) ? "Anti-plastic Campaign (Street play)" (26th September 2018) ? "Anti-plastic Campaign (Street play)" (6th October

2018) ? Solid Waste Disposal, Septic tank, Liquid waste Management ? 26 NSS volunteers dug compost pit on 1St to 7th January 2019 ? Work on garden ? Rally on "Swachhata Abhiyan", performed Street Play on "Anti-plastic Campaign" ? Cleanliness of School, Planting Trees, Swachhata Abhiyan

National Service Scheme (NSS) organized an Anti-plastic rally drive on 8th September 2018 from Navapur Naka to Ostwal gate, Boisar (E). The aim of the rally was to create awareness among the people, the harmful effect of the use of plastics bags on the environment. After completion of the rally, the volunteers distributed environment-friendly bags to the public and the shopkeepers and requested them to avoid using plastic bags, disposable plastic plates/ cups, glasses and containers which are very harmful.

The NSS also organized a Swacchata Abhiyaan Event on 2nd October 2018 at Betegaon Village. The NSS volunteers cleaned the maximum area of the village and transported all the garbage away from the village to the compost pit.

National Service Scheme (NSS) also organized a Street Play on "Antiplastic Campaign" on 26th September 2018 and on 6th October 2018 at Theem College of Engineering and Betegaon Ashram School and Betegaon Gram Panchayat respectively. The message of using plastic and its effect on our environment is explained through a street play.

Theem College of Engineering's National Service Scheme (NSS) organized a 7 days camp from 1st to 7th January 2019 at Kukade village, District Plaghar in which eco-friendly activities were undertaken. There were 26 NSS volunteers who participated in the camp and all of the activity taken part in the following activities: Digging a pit for composting, working on the garden, Rally on Swachhata Abhiyan, Performed Street Play on Anti-plastic Campaign, Cleanliness of School and Planting Trees, etc. The above-mentioned activities are based on maintaining the pollution-free environment for a healthy society and to make the difference in traditional and conservative thinking of the rural community.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: 1. Title of the Practice: "Science Exhibition - Junior Scientist" 2. Objectives of the Practice: ? To create interest in science and technical education among school students ? To impart knowledge on the environment and resource of energy around us ? To enhance the innovative sense with real experience in scientific products. ? To inculcate the sense of competition so that their creativity is possible to exhibit ? To create awareness of technical education and its career opportunities ? To sow a seed in school students' mind for taking own decision about higher studies and suitable careers. 3. The Context Theem College of Engineering is situated away from Mumbai. To inculcate the sense of science and technical education's benefits and opportunities to these rural area's students, every year, the institute arranges "Technical Fair" in the name "Science Exhibition" and award them with the title "Junior Scientists". As an appreciation, the winners of the competition are awarded trophies, certificates Medals as a Junior Scientist. The participant of different schools displays their science projects related to science and technology. 4. The Practice Theem COE regularly arranges Technical Fair and conducts Science Exhibition. The institute allows a minimum of three entries from each school with a maximum three members in a group. The exhibition is totally free for all, they can display mini projects with hardware and software technology. The schools taking part should be registered at first with the details of their projects and required arrangements from the institute. The Judge is invited from Industry Jr. College and the process of judging starts after the inauguration and felicitation program. They declare the result of the winner and the runner-up. The institute awards them trophies, medals, and certificates. 5. Evidence of Success The main objective of this

program is to inculcate the sense of science and technical education among rural students and build relation among schools, colleges, and industries. The institute observes the attractiveness of students and their interest in participating in the number of new projects every year. Sometimes, this helps engineering students to take the decision for their final year projects. 6. Problems Encountered and Resources Required Problems Encountered: The rural area students are unaware, these students are not approaching for higher studies. They feel that after school or junior college get some industry-oriented laboring jobs and settle their life. Resources Required: The institute provides bus services from Boisar station to college so that they could visit our campus, hence the student participants are motivated. The institute provides refreshments for all participants teachers. This is one of the greatest events conducted by Theem COE which shows light to the entire rural pupil who really wanted paths with light to do good in the technical field.

Best Practice 2: 1. Title of the Practice: "Counselling and Career guidance – for Secondary and Higher Secondary Students". 2. Objectives of the Practice: Objectives/Outcomes: ? Creating interest in technical education ? Providing the details of the available career opportunities after studying technical education ? Providing specific career information, advice and guidance in order to supplement students' inner virtues to develop into positive personality ? Enhancing level of awareness, positive attitude and confidence among students and prepares them to grab every possible opportunity towards employability ? Giving ideas to plan their career by providing a comprehensive understanding of opportunities at the key transition point and translate these effectively into appropriate decision and action. 3. The Context The Counselling and Career Guidance is an essential part of an academic institution that gives a definite and tangible direction to students in order to achieve their academic and professional goals. The institute conducts this guidance not only for secondary students but also for engineering students to give complete awareness about the job scenario as well as opportunities lying ahead of them. 4. The Practice The Counselling and Career Guidance starts with the target of spreading awareness programs among 10th and 12th students of nearby schools and junior colleges. For this one of the college, staff visits the respective schools and colleges with their team. During the Counselling and Career Guidance visits, the enquires about various aspects of education and career guidance programs are clarified with the details of seat availability in different branches of engineering and the students who have qualified in the entrance exams would fruit their chances for the admission in an institute of their choice, etc. 5. Evidence of Success Career guidance has shaped the students careers by enabling them to succeed in campus interviews as well as various other competitive exams and higher studies. Students have been transformed into a matured and responsible technocrat. Through this career guidance students have gained ample insight and confidence in choosing a career option. Career guidance counseling has developed a strong and personal relationship between the faculty and students which in turn has helped them to do better in their careers. 6. Problems Encountered and Resources Required Problems encountered: There were many problems encountered during the Counselling and Career Guidance exhibition such as convincing the administration of the schools and colleges to attend the program, attendance of parents and their wards very less due to a remote location. Resources Required: The team convinced the administration of the school by offering the time which does not affect their regular schedule. The team provided proper writing material to students and parents to convey the message and importance of taking part in this Counselling and Career Guidance.

Best Practice 3: 1. Title of the Practice: Talent Show Competition:- "Interpersonal Corporate Skills Presentation" and "Public Speech" 2. Objectives of the Practice: ? Imparting the knowledge of Interpersonal skills, teamwork, and problem-solving skills and its importance at work. ? Training students for corporate ethics with effective communication skills and a multidisciplinary

approach. ? Providing opportunities for demonstrating professional skills to a jury and the audience. 3. The Context Mumbai University prescribes different subjects for the development of the communication skills of engineering students. In the second and fifth semesters, students learn the importance of communication theory with ethical codes of business activities. The subject "Communication Skills" helps first-year students improve their public speaking skills. The subject "Business Communication Ethics" helps third-year students to develop professional writing skills such as a technical report, research reports, survey reports, etc. 4. The Practice They prepare a speech on different topics for extempore and story-telling which build their self-confidence and present it to their peers. The Humanities department conducts Talent-show Competition in every semester. Jury members evaluated the participants and select the winners. The winners are awarded. For improving corporate world employable skills, students of third-year practice mock meetings. They circulate Notice and Agenda before meeting and write MOM's after completion of the meeting. 5. Evidence of Success Students is able to understand their quality and do self-evaluation after practicing these activities. They are able to express their ideas with greater clarity and ability to listen to their own speech for improving. They understood the importance of developing Speaking, Reading and Writing skills and its effectiveness today. 6. Problems Encountered and Resources Required As a maximum of our students are from vernaculars, they fear and hesitate for stage speaking. It was difficult to develop their vocabulary and construction of sentences. Few of them are never claimed on stage for any kind of presentation and some are done presentation but not knowing the technique of public speech. Best Practice 4: 1. Title of the Practice: "Felicitation of the Academic Topper's" 2. Objective of the Practice: 1. To appreciate their hard work in academics. 2. To motivate the student in their academic performance. 3. To create the competition among the student for achieving top rank at the University of Mumbai. 3. Context The purpose of this is to motivate the students for academic progression. Many Industrial visits for the student help them in their academic activities. To motivate the student for the academic performance, the award show is organized in our College campus. 4. The Practice Theem COE conducts the award show every year for each department of the college for the students who have performed well in their academics are awarded prizes. At the start of the event, felicitation of guests is done and then all the student toppers from various departments were felicitated for their sincere commitment to achieving magnificent results. All the topper students are appreciated by the delegates and the felicitation really motivate juniors. 5. Evidence of Success The main objective of the program is to motivate the student to excel in their future roles and contribute to the future wellbeing of society and the nation. This activity has created a competitive environment among students for achieving a high score in their academics. Every year the results and performance of the student are being increased. Due to conducting this activity, some of the students are motivated and they have secured rank in the University of Mumbai. 6. Problems Encountered and Resource Required Resource Required The date and timings were conveyed to them for

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
http://theemcoe.org/attachments/AQAR_18-19/Best_Practice.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

Theem Maker's Vector the state-of-art was started at its own earmarked premise near Botanical Garden. It was inaugurated by Mr. S. P. Nadkarni, General

Manager - Home Fabrics (Works Administration), M/S DeDécor Pvt. Ltd. Boisar on 31 July 2018. Theem Makers' Vector is equipped with workshop machines, tools, and equipment for enabling students to carry out their innovative projects, projects seeking patent and intercollegiate competitive with equal attention on safety of self and machines. The workshop's liberty environment encourages budding engineers to acquire technical and professional skills. All the projects are aimed to obtain tangible products as 'Quality Innovative Products' with cost-conscious. Students are motivated and inculcated to form a group of three to four members with the spirit of competitiveness among groups. Here are a few of the projects accomplished in TMV (Theem Makers' Vector). Objectives: 1. To develop problem-solving design skills in Club Competition. 2. To update students about recent technological changes in the industry. 3. To generate revenue through consultancy and enhance employment and entrepreneurial ability. 4. To offer consultancy product development services to external agencies revenue generation. Outcomes and Achievements: Teams of Theem COE has participated in National International competition. Matrix Type Solar Dryer Won Second Prize at Vortex 2018 Students of Mechanical Engineering Mr. Sagar S Yadav, Mr. Nikhil R Shahu, and Mr. Adesh U Maral had designed Matrix Type Solar Dryer for "Vortex-2018" a National Level Project Competition held on 26 October 2018 at Institute of Chemical Technology, Matunga, Mumbai. They won second prize with citation and Rupees 10,000 cash prize. This achievement is one of the project-based learning environment's initiations that added one more laurel to the institution. All the projects "Matrix Solar Air Heater", "Convex Mirror Solar Dryer" and "Robot Operated Auto Floor Cleaner" were presented in "Connexio-2018" a National Level Projects Competition hosted by ICT Mumbai and "Aviskar 2018" which was held on 27 October 2018 and on 23 December 2018 respectively. In which the project "Matrix Solar Air Heater" won the 2nd Prize at "Connexio-2018". Thrust: The primary effort to achieve the innovative project goals was a success through the teams of Engineering student projects. 1. "Matrix Solar Air Heater" by three Mechanical Engineering students participated in Vortex 2018 - National Project Competition at the Institute of Chemical Technology (ICT), Mumbai and won the 2nd Prize. 2."Concave Mirror Type Solar Dryer" by three Mechanical Engineering students, participated in the same Vortex 2018 at ICT Mumbai. 3."Automatic Floor Cleaning Device" by Information Technology (IT) a mini Inter/Intra Collegiate Project Competition. 4. "Server-room's Online Support System" by Information Technology (IT) as a Hobby Project. MEGA ATV CHAMPIONSHIP 2019 (Season 4) A team of 30 students (BLITZKRIEG GROUP) participated in MEGA ATV CHAMPIONSHIP 2019 organized by Auto Sports India along with FMSCI in Goa, Maharashtra from 18,19,20,22 March 2019. SMART INDIA HACKATHON 2018-2019 A team of 06 students (REBELZ GROUP) participated in the Smart India Hackathon 2018-2019 organized by IIT ROORKEE, UTTARAKHAND from 03 March 2019 to 04 March 2019.

Provide the weblink of the institution
http://theemcoe.org/attachments/AQAR_18-19/Distinctivness.pdf

8.Future Plans of Actions for Next Academic Year

Future Plans of Actions for Next Academic Year 19-20 IQAC has chalked out, the following institutional development components as future plans for next academic year 2019-2020. "Trends n Herald in Engineering Excellence and Metamorphosis" (THEEM-2020)": is planned to conduct a series of conference with effect from 2019-2020. Tentative Dates for coming National Conference is scheduled on 13th and 14th January 2020. Preparation and planning is in progress. Also discussion and plans are under way for conduction of an International Conference in the coming academic years. To establish and connect for international exchange of educational and innovation knowledge. Present scenario of declining interest in some core programs. A proposal is under consideration for induction of new programs in demand namely: 1. Artificial Intelligence and Machine Learning. 2.

Data Science. 3. Mechatronics program. Laboratory and facilities upgradation according to new programs sanctioned, will be taken up for establishment. AICTE approved STTPs/ FDPs in the core areas like, Civil, Mechanical and IT programs for faculty empowerment is in prime consideration to conduct. Office automation arrangement is proposed to support student convenience in the field fees payment thru online and also to receive needy documents thru online or mails directly from college office. Planned to establish "Startup and Incubation" facilities through Entrepreneurship Cell. It is planned to begin with at least three incubation cubicles in the field of manufacture and software development. Strengthening of ICT for online teaching services, at least two studio will be taken up for establishment. Outreach activities in the field of ICT trainings to our staff and also to school teachers of our neighboring locality as a CSR activity.