Yearly Status Report - 2019-2020

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.	**07769916109**
Mobile no.	**7770043830**
Registered Email	**info@theemcoe.org**
Alternate Email	**principal@theemcoe.org**
Address	**Chilhar Road, Betegaon, Boisar**
City/Town	**Boisar**
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.	**07744812677**
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_19 -20/Academic_cal.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**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
IQAC meetings	**24-Nov-2019** **1**	**10**
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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
Theem college of Engineering Boisar	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 :	**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)

1. Academic Monitoring thru audits 2. Proposed to Conduct National Conference i). THEEM2020, (Jan 2020) and ii). Int`nl Conference HWWE20 (Dec2020) 3. Quality Improvements through FDPs 4. NIRF Participation 5. Inter Class Talent show 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	Achivements/Outcomes
Improvement in ICT facility	New platforms Google Meet and Google Classroom were explored for online teaching learning process
Improvement in Entrepreneurship Cell	Students were attracted to take up entrepreneurship through various initiatives

Empowerment of Student	Workshops, Training ,Seminars and Webinars were conducted
Empowerment of faculty programs	STTP conducted on Advancement in Computer Application
Laboratory and facilities upgradation to new sanction program	First year laboratories were upgraded as per syllabus
Expansion proposal for new program	Got sanctioned new program Computer Science and Engineering (AI&ML)
Conduction of International Conference HWWE 2020	Got awarded International Conference HWWE 2020 to be conducted during 10th to 12th Dec. 2020
Conduction of National Conference THEEM 2020	Sucessfully conducted National Conference THEEM 2020 during 12th to 13th january 2020
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
CDC	21-Feb-2020

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)	**A lease software Credit Exam Desk based VB tool wih SQL back end function is used in exam cell . Admin has Tally ERP and Tally aspire software. Soul software used in Library. Google classroom and google meet are the platforms explored for online teaching learning process. Individual staff you tube channels and videos are connected to students thru google meet.**

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 and it follows the curriculum prescribed by 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, time desk and semester format guide the faculty for a systematic programme implementation with 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 coordination of the group of faculty and students. The faculty monitor student's teaching-learning methods with continuous evaluation patterns 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 the required entrepreneurship skills. Development/Planning: 1) As a part of deployment strategy for effective teaching-learning process, HODs submit term plans to the Principal before a month of commencing the semester as follows: [i]. The upcoming semester's subject allocation and load distribution in Curriculum Implementation and Assessment Report (CIAR). [ii]. 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, practicals, remedial classes and load adjustment (if any). 4) Faculty plans the delivery of lectures supported to learner centric techniques such as MOODLE, ICT, NPTEL Lectures, Case-studies, Brainstorming, Assignments, and other teaching aids. 5) Faculty prepare 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 practicals are executed as per the time-table and it is [Lectures and practicals are] 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 is maintained. 3) The faculty members try to achieve PEOs, POs and COs of respective programmes. 4) The faculty makes the lectures interesting and effective in a conversational method of teaching which motivates student's involvement, interaction, team activities, class work, and self-learning realisation. 5) For upgrading the knowledge of faculty, institute always supports them for attending STTP/FDP/Workshop/Conferences. 6) The institute improves the teaching-learning process through stakeholder's feedback and encourages students to take part in competitive projects. 7) 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
SolidWorks Training	Nil	30/12/2019	5	Employabil ity	Skill Development
SolidWorks Best Practices	Nil	01/07/2019	5	Employabil ity	Skill Development
Software	Nil	29/02/2020	3	Employabil	Skill

Training (STAAD Pro)				ity	Development
Finite Element Analysis of Engineering Applications using ANSYS software	Nil	24/06/2019	5	Employabil ity	Skill Development
IoT Workshop	Nil	28/08/2019	3	Employabil ity	Skill Development
IoT by Mic rocontroller by Texas	Nil	27/02/2019	5	Employabil ity	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	Artificial Intelligence and Machine Learning	02/07/2019
BE	Automobile Engineering	02/07/2019
BE	Mechanical Engineering	02/07/2019
BE	Electrical Engineering	02/07/2019
BE	Electronics and Telecommunication Engineering	02/07/2019
BE	Computer Engineering	02/07/2019
BE	Information Technology	02/07/2019
BE	Civil Engineering	02/07/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Automobile Engineering	02/07/2019
BE	Mechanical Engineering	02/07/2019
BE	Electrical Engineering	02/07/2019
BE	Electronics and Telecommunication Engineering	02/07/2019
BE	Computer Engineering	02/07/2019
BE	Information Technology	02/07/2019
BE	Civil Engineering	02/07/2019

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

	Certificate	Diploma Course
Number of Students	299	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 Aptitude Training	08/07/2019	150
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electronics & Telecommunications Engineering	14
BE	Information Technology	7
BE	Computer Engineering	1
BE	Civil Engineering	3
BE	Mechanical Engineering	27
BE	Automobile Engineering	12
BE	Electrical Engineering	13
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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 a feedback form which comprises the feedback of stakeholders, faculty, alumni, parents, students, etc. The program exit survey and the course exit survey are taken to analyze to understand the capability of students. The feedback on the infrastructure facilities such as Library, Computer Labs, Canteen and others in the campus is taken from the parents and it is analyzed for further improvement if required. Parents' feedbacks are taken during the Parent-Teacher Meet after the interaction. The alumni, the final year students and the faculties' feedbacks are taken with the suggestion to the improvement of curriculum and syllabus revision and the same is conveyed to the Chairman, Board of Studies of the respective program at University of Mumbai. The feedback of recruiters or employers is also collected which is deliberated in a meeting of Training and Placement Cell (TPC). 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. Internal Academic Monitoring Committee (IAMC) conducts an exercise of collecting feedback about the faculty from the students of the respective course through which it measures certain parameters of the faculty like Subject Knowledge, Presentation

Skills, Teaching-aids Used, Methodology, etc. This exercise is taken twice in a semester on various teaching-learning aspects which are analyzed and implemented with corrective measures by the HODs. If any inadequacy is found, the respective faculty will be informed to enhance it further. Later, the management analyses the data and takes appropriate steps to improve the quality of teachers as well as infrastructure. The alumni feedback and course exit survey which are taken from all the students enable us to make out the proper teaching-learning process in practice and it also empowers the institute to improve the necessary areas. In every semester, the evaluation of junior faculties is processed by senior faculties, subject experts and they are guided to enhance new skills suitable to new trends. The institute also receives feedback from experts and external examiners on the quality of our students and their work abilities. The feedback is a key tool which triggers a continuous process to improve the quality of education, students' needs and industry requirements. The mechanism of obtaining feedback on a regular basis highly encourages and energizes to bring suitable appropriate changes in the system which provides strong links to employee satisfaction, fulfillment and productivity. Our institute leaders actively seek the feedback to enhance their performance as the most effective leaders have good listening and emotional awareness.

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	ELECTRICAL ENGINNERING	60	8	8
BE	AUTOMOBILE ENGINEERING	60	5	5
BE	CIVIL ENGINEERING	60	1	1
BE	MECHANICAL ENGINNERING	120	5	5
BE	ELECTRONICS AND TELECOMMINI VATION ENGINEERING	60	2	2
BE	INFORMATION TECHNOLOGY	60	9	9
BE	COMPUTER ENGINNERING	60	46	46

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses

2019	1363	Nill	96	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
96	96	3	31	2	12

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)

Students mentoring system available in the institution. 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
1363	96	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
96	96	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
2019	Mohd. Shoeb Shakeel Ahmed	Assistant Professor	NPTEL Online Certification on Engineering Metrology
2020	Dr.N.K.Rana	Director	Session Chair for THEEM 20 National level conference
2020	Dr.Aqueel Ahmad Shah	Principal	Session Chair for THEEM 20 National level conference
2020	Dr.Najmuddin Aamer	Professor	Session Chair for THEEM 20 National level conferenceSession Chair for THEEM 20

			National level conference
Nill	Prof.Vajahat Ali	Assistant Professor	Session Chair for THEEM 20 National level conference

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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	26/11/2019	17/02/2020

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

Reforms initiated on Continuous Internal Evaluation (CIE) system at the institutional level. 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)

Academic calendar prepared and adhered for conduct of Examination and other related matters. 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/attachments/AQAR_19-20/Dept_CO-PO.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
322229310	BE	ELECTRICAL ENGINEERING	50	50	100
322219110	BE	CIVIL ENGINEERING	73	73	100
322261210	BE	MECHANICAL ENGINEERING	126	125	99.2
322224610	BE	INFORMATION TECHNOLOGY	35	35	100
322224510	BE	COMPUTER ENGINEERING	57	57	100
322237210	BE	ELECTRONICS AND TELE-COM MUNICATION ENGINEERING	8	8	100
322260210	BE	AUTOMOBILE ENGINEERING	61	61	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)

http://theemcoe.org/attachments/AQAR_19-20/SSS.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
Major Projects	365	haji Jamaluddin 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 Career In Higher Education After Engineering	EXTC	05/03/2020
Seminar On Intellectual Property Rights	Institute	29/01/2020
Python Workshop For Teachers And Research Scholars	Computer	22/06/2019
Seminar On Core Values And Their Significance	Computer	29/06/2019
Semanar On Awareness On Job Prospects For Design Software Skils	Mechanical	17/07/2019
Seminar On Software Application In Civil Engineering	Civil	23/07/2019
Seminar On Artificial Intelligence	Mechanical	06/08/2019
Seminar On Artificial Intelligence	Computer	06/08/2019
Seminar On Artificial Intelligence	EXTC	06/08/2019
Seminar On Higher Studies In Abroad	Computer	09/08/2019
Seminar On Higher Studies In Abroad	EXTC	09/08/2019
One Day Workshop On Linux	Computer	23/08/2019
Seminar on 3-D Scanning And Reverse Engineering	Mechanical	28/08/2019
Workshop On IOT	IT	28/08/2019
Semianr on Opportunity In Psu And Highier Education Through Gate	Mechanical	23/09/2019
Seminar On Data Science Using Python	Computer	23/09/2019
Seminar On Data Science Using Python	EXTC	23/09/2019
One Day Workshop On R-Programming	Computer	22/11/2019
Seminar On HVAC	Mechanical	23/01/2020
Seminar On HVAC	Civil	23/01/2020
Workshop of Introduction On Buildig Services	Electrical	23/01/2020
Seminar on Alternative	Automobile	24/01/2020

Fuel Vehicle With Fuel And Electricity Conservation		
Seminar On Electrical Software Being Used In Industries And Research Work	Electrical	04/02/2020
One Day Main Workshop On C And CPP	Computer	22/02/2020
Seminar On Gate Exam Opportunities After Gate	Electrical	24/02/2020
Seminar On Gate Exam Opportunities After Gate	Computer	24/02/2020
Seminar On Gate Exam Opportunities After Gate	EXTC	24/02/2020
Seminar On Career In Ongc After Engineering	Civil	02/03/2020
Seminar On Career In Ongc After Engineering	Electrical	02/03/2020
Seminar On Career In Ongc After Engineering	EXTC	02/03/2020
Seminar on Road Safety Awaresness	Automobile	05/03/2020
Seminar On Career In Higher Education After Engineering	Computer	05/03/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	Nill	NIL

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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 Entrepreneur Start up Cell	Mr.Gujarati Abdul Rehman	Self Theem COE	Arc3D	Additive Manufacturing	01/08/2019

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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
0	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 Engineeering	13	7.36
International	Civil Engineeering	6	6.86
International	Computer Engineeering	11	7.36
International	Electrical Engineeering	9	7.21
International	Electronics and Telecommunication Engineering	4	7.36
International	Information Technology	5	7.36
International	Mechanical Engineering	24	7.29
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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
Automobile Engineeering	13
Civil Engineeering	5
Computer Engineeering	11
Electrical Engineeering	9
Electronics and Telecommunication Engineering	4
Information Technology	4
Mechanical Engineering	23
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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
PyBot- A chatbot for answering python queries	Mr Sayed Tanzeem	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	0	Theem COE	Nill
'Voice and	Mr.Khalil	Journal of	2019	0	Theem COE	Nill

Gesture Based Smart Home Automation using Raspberry PI'	Pinjari	Emerging Technologies and Innovative Research (JETIR)				
Real Time Bus Status Monitoring System	Mr Azhar Nabi	Journal of Emerging Technologies and Innovative Research (JETIR)	2019	0	Theem COE	Nill
			[View File](#)			

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
Hardware Realization of Neural Network Based Controller for Autonomous Robot Navigation	Dr Najmuddin Aamer	Computing Methodologies and Communication (ICCMC), 2017 International Conference on	2019	3	3	Theem COE
The internet of things- emerging technologies, challenges and applications	Ashraf siddiqui	International Journal of Computer Applications	2019	1	2	Theem COE
			[View File](#)			

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	5	29	Nill	18
Presented papers	1	68	Nill	Nill
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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	306	466
View File			

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
NIL	NIL	NIL	Nill
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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
NSS,Women Empowerment	Various Agencies	various activities	306	466
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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
Training for Designing and Drafting of the Students (TheemCOE and SHIRSH TECHNOSOLUTION)	Students	Theem COE	15
Training (Theem COE and CADD Centre,Vasai Road)	Students	Theem COE	13
Placement (Tata Consultancy Services)	Students	Theem COE	1
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship,	Internship,	Multiple Industries	01/06/2019	01/07/2020	430

Industrial Visit, Training	Industrial Visit, Training	and Agencies				

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
TEC SYSTEM	18/11/2019	Intership, training, placement, etc	Nill
N Kenin Transformers	10/12/2019	Intership, training, placement, etc	Nill
Tata Consultancy Services	29/11/2019	Intership, training, placement, etc	4
CADD Center	06/03/2019	Intership, training, etc	34
SHIRSH TECHNOSOLUTION	03/06/2019	Training for Designing and Drafting of the Students	78
CISCO	05/01/2019	Training for Network and Security, Placement, etc	Nill
MICROCHIP	05/01/2019	Training on IOT and ELECTRONICS, Placement, etc	Nill

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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
1190000	1162580

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Video Centre	Existing

Seminar halls with ICT facilities	Existing
Seminar Halls	Existing
Classrooms with Wi-Fi OR LAN	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL 2.0	Partially	2.0.0.14	2010

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	18462	6050452	456	231172	18918	6281624
Reference Books	3714	2042700	167	83500	3881	2126200
e-Books	6411	Nill	748	Nill	7159	Nill
Journals	230	501212	124	274718	354	775930
Digital Database	Nill	Nill	Nill	Nill	Nill	Nill
CD & Video	1135	Nill	16	Nill	1151	Nill
Library Automation	Nill	30000	Nill	Nill	Nill	30000

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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
Imran hassan ahmad hassan	FEA Modules	Google meet	20/08/2019
ANSARI SHADAB AZHAR NAZEER IQBAL	ICE, RES, IEM	You Tube	20/08/2019
Prof.Iqbal Mansuri	RAC, DOM	Google meet	21/08/2019
Akhtar Husen Momin	IEM	Google meet	10/09/2019

Ganesh Rhodge	M3, M4	You tube	20/07/2020
Khalil Pinjari	Computer Network, Microprocessor, AWN	You tube	21/05/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	649	15	649	1	2	5	7	65	0
Added	0	0	0	1	0	0	1	0	5
Total	649	15	649	2	2	5	8	65	5

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,Microphne, smartclasroom,studioroom	https://drive.google.com/file/d/1XFbG1iznsL22c5DJZIGU6UspVm_T88kh/view?ts=6127838d
You tubepublicatios	https://www.youtube.com/watch?v=Oy1dYtT8plM

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
38250000	37678921	14250000	13937146

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)

Theem College of Engineering, Boisar Maintenance Policy 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 centers, excellence centers for academic development and for employability enhancement. The well-resourced library and learning resource center, spacious ICT enabled classrooms, audio-video language studio for English language and soft skills development, fitness center gym, yoga center, 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: 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_19-20/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/Freeship	721	22992367.5
Financial Support from Other Sources			
a) National	Charitable Trust/Social Welfare Association	32	856658
b)International	Nil	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	08/07/2019	2078	Campus Credentials, TCOE Internal Faculty,

Lab,Bridge Courses, YogaMeditation,Pesonal counselling,Mentoring			Language Lab, Robo-Kart, CAD Centre Vasai, Shirsh Design Solution Pvt. Ltd. Goregaon West, Internal Mentor Mentee Committee

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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 passedin the comp. exam	Number of studentsp placed
2019	No. of Student benifited by guidance for competitive examinations	150	150	Nill	38
2020	No. of Student benifited by guidance for competitive examinations	250	250	Nill	62

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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
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
Accurex Pvt. Ltd. NeoSoft A One Salasar Capgemini Clover Infotech eScan Infosys Intrasoft	276	100	Nill	Nill	Nill

| Pvt Ltd Mindcraft Technologies Pvt. Ltd. NeoSoft Nimap Infotech TCS Zeus Learning Servosys Pvt. Ltd. A One Salasar eScan Mindcraft Technologies Pvt. Ltd. | | | | | |

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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	5	Bachelor of Engineering	IT, Mechanical, Automobile, Civil	Monash university,Australia, bbw University of applied sciences,Rajasthan technical University ,Mumbai university	Master of Data Science ,International Technology Transfer Management,Structural Engineering/Const.Managt.
2020	5	Bachelor of Engineering	Civil, Electrical	Mumbai university,Pune University,, Northeastern University	Structural Engineering/ Const.Managt.,Master in analysts

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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
TOFEL	1
Any Other	1

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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
Indoor Activities	Institution	134
Junior scientist	Block level	35

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Participation	National	Nill	Nill	175220	Meet Mistry
2019	Participation	National	Nill	Nill	178149	Krupesh Shinde

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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)

5.3.2 Activity of student council and representation of students on academic and administrative bodies and committees. 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 Intercollegiate 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 Redress 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, Robo football, 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,

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institute completed its decade and within this period it conducted five alumni meet/association meetings prior to registration of Alumni Association. In the association meeting held on 16 December, 2017, the unanimous decision had been taken to form an alumni association. The alumni voted for the same and the body was formed. Theem Alumni Association was registered on dated 15-12-2018 with the registration number MAH/2139/2018/Thane. The Alumni Association has the following objectives: • Creating a dynamic link to forge a bond between Institute and Alumni • Providing better wholesome education to students in curriculum and professional career • Guiding students with Alumni's experience in their career and to help the institute building "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 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. This effective network 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 every year and 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 objectives. Theem Alumni Association started to collect the financial contribution from alumni and the same will be deposited in its bank account. The process will be completed within a short period of time. 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 • Guiding final year students for selection of industry oriented projects • The institute arranges guest lecture of alumni to make availability of industry oriented curriculum and extra-curriculum activities • Alumni also suggest enriching the department laboratories to support the update technology as well as good placement.

5.4.2 – No. of enrolled Alumni:

246

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

82600

5.4.4 – Meetings/activities organized by Alumni Association :

01

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)

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. ii) 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 challenges. 3. To take systematic approach 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 assisted 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 and Mentors are pillars of AMC. All Teachers are involved in implementing AMC policy through IAMC. There are different 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.

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	• The design and improvement of Educational program is chosen by the affiliating college. • Head of the department and Faculties nexus with the college and give their outlook which is identified with educational program elevation. •To pledge that the educational plan is refreshed customarily • To development interest in the course structure modification in the University •To continue getting resolute criticism from the Alumni or Industrial contacts • To enhance Industry contacts for getting the temporary positions/ventures •Change in association has gotten new course structure with CBCS • We continuously support our faculty for FDPs/Conferences and moreover resolve FDPs for ennoblement of the Faculty. •Expert industrial training is routinely composed. • Nuisance of understudies towards society is guaranteed.
Teaching and Learning	• To make certain student medial teaching learning appliance. • To plan and prepare academic calendar beforehand for each semester and disclose accordingly. • To make the

	students well informed about the entire time table and take feedback of students. • To improve the effectiveness and success rate. • ICT enabled classrooms are provided • Continuous elevation of college is observed and maintained. • Students are encouraged to participate in various competitions, conferences, paper presentation etc. • The entire focus is on the overall personality development of students. • Uses of online platform such as google meet for smooth conduction of lectures during the pandemic.
Examination and Evaluation	• Constant assessment is assured for each semester with mid-semester assessments and two periodical tests as per University norms. • The evaluation is based on Submission of assignments and diaries. • The whole program is managed and run in a very smooth manner in simultaneousness with the College. • Transparent assessment is assured both in internal assessment or University Paper Assessment • University papers are inspected with scanner tags. • Internal test papers are delivered to the understudies and arrangement is talked about. • The understudies additionally know subtleties of their accommodation execution with criteria. • Use of online platforms such as google meet and google form for smooth conduction as well as evaluation of examination during pandemic.
Research and Development	• Faculties are exhilarated to gratify in various FDPs/Workshops/conferences • Faculties are encouraged to publish different papers and sponsored liberally to present the same at National and International levels. • It is mandatory for the students to publish one National/ International journal paper before submission of B.E Project thesis. • Candidates had started their startup company so far and Working as Entrepreneur.
Library, ICT and Physical Infrastructure / Instrumentation	• The committee of library incorporates representatives from each department. • The committee ensures acquisition of books, journals and other requirement etc. • Fully equipped library with mechanization facilities available. Library management is done through software/Issue-return with bar-

	coding is done. • Institute has Smart classrooms with well-equipped Audio-Visual Room for productive Teaching-Learning. • Institute has committed 60 MBPS Internet lease line for ICT enabled class room, Seminar Hall and online exam. College also has well maintained laboratories as per AICTE norms.
Human Resource Management	• College has Administration office to look after all the teaching, non-teaching and support staff. • Provident as well as Gratuity facility is provided according to EPF Act. • Human Resource Management has transparent appraisal System
Industry Interaction / Collaboration	• Institute has well maintained, structured Training and placement related activities. • Institute Interaction program identify and request industry experts to deliver content apart from syllabus and make students aware of new challenges and engineering practices adopted by the industry. • Training and Placement cell provides industry exposure to students through internships, industry visits, expert lectures by industry personnel through Collaboration and MoU with Industries. • Institute Engages 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. • Google Meet and Google form being used for examination and evaluation.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Mr. Raees Ahmad	Nill	Maharashtra Training and Placement Officers Association	1000
2020	Mr. Raees Ahmad	THEEM 2020	Nill	400
2020	Dr. Jyothi Kumari	THEEM 2020	Nill	400
2020	Dr. Ashraf Shah	THEEM 2020	Nill	400
2020	Dr. NAjmuddin Amir	THEEM 2020	Nill	400
2020	Mrs. Jyoti Katela	THEEM 2020	Nill	400
2020	Mr. M.S.Balas ubramani	THEEM 2020	Nill	400
2020	Mrs. Maya Patil	THEEM 2020	Nill	400
2020	Miss. Tasneem Azam	THEEM 2020	Nill	400
2020	Mrs. Jayshree Sali	THEEM 2020	Nill	400
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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	Title of the	From date	To Date	Number of	Number of

	professional development programme organised for teaching staff	administrative training programme organised for non-teaching staff			participants (Teaching staff)	participants (non-teaching staff)
2019	Workshop on Python	Nill	22/06/2019	22/06/2019	21	Nill
2019	Workshop on Linux	Nill	23/08/2019	23/08/2019	22	Nill
2019	Workshop on R Programing	Nill	09/11/2019	09/11/2019	12	Nill
2020	Workshop on Arduino	Nill	08/02/2020	08/02/2020	7	Nill
2020	Workshop on C and CPP	Nill	29/02/2020	29/02/2020	10	Nill
2020	Workshop on Blooms taxonomy	Nill	01/02/2020	01/02/2020	7	Nill
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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
NPTEL online certification : python for data sciecnce(4 week course)	1	06/01/2020	03/02/2020	20
One week FDP on Python	2	04/05/2020	08/05/2020	5
online workshop on Education 4.0	2	28/04/2020	30/04/2020	3
One week FDP on CFD usin Open FOAM	1	01/05/2020	07/05/2020	7
webinar on digital era of teaching	2	11/05/2020	13/05/2020	3
5 days National Online Faculty Development Program on " Artificial Intelligence	2	22/05/2020	26/05/2020	5

webinar onmachine learning and artificial intelligence	1	23/05/2020	27/05/2020	5
Online FDP ON Innovation,Entr eprenership,n Industry 4.01	1	25/05/2020	29/05/2020	5
One Week Online Faculty Development Program on "Engineering Education the Industry: A Post COVID-19 Perspective	1	01/06/2020	06/06/2020	7
Webinar on machine learning based project architechture design	1	15/06/2020	19/12/2020	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	15	Nill	11

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 regulated at regularly by institute's own internal audit system as well as the external agency. All transactions and vouchers of each financial year thoroughly scrutinize and substantiated 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 corrected 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
Multiple agencies	90000	Sponsorship Against THEEM2020

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	Internal	Yes	Director, IQAC chairman and IQAC Coordinator
Administrative	Yes	External	Yes	Director, principal and accountant

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

I. Parents-Teacher Meet- 31/08/2019 II. Parents-Teacher Meet- 22/10/2019 III. Parents-Teacher Meet- 29/02/2020 IV. Parents-Teacher meet- 18/04/2020

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

I. Workshop on ICT level – III II. Workshop on Soft skills development III. Workshop on Writing Skills development

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

I. National Conference, THEEM-2020 II. International Conference- HWWE 2020 III. Inclusion of Internal monitoring committee (IAMC) IV. Mentor-Mentee System

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	No
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
2020	National Conference, THEEM-2020	21/05/2019	11/01/2020	13/01/2020	300
2020	International Conference- HWWE 2020	21/05/2019	13/12/2020	15/12/2020	250
2019	Internal Academic Monitoring Committee	21/05/2019	05/08/2019	18/04/2020	1326
2019	mentor mentee	21/05/2019	Nill	Nill	1326

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
Safety Riding Training by Honda Motorcycle Scooter Pvt. Ltd. for girl students	05/03/2020	10/03/2020	52	57

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
0.64

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	Nill
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
2020	9	9	12/02/2020	1	Blood Donation	Our College has been religiously organizing blood donation camps	112

| | | | | | | every year and students and the faculty members come forward voluntarily to donate blood.While addressing to people at the camp our NSS volunteers brought awareness in them about shorta |

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	14/03/2020	Theem COE maintains a common Code of Conduct and it is notified to all the students and teachers.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.The existing Code of Conduct for teachers and students is applicable for Online Lectures and all ICT based teaching and learning procedures followed due to pandemic

| 7.1.6 – Activities conducted for promotion of universal Values and Ethics |

Activity	Duration From	Duration To	Number of participants
SPEECH BY EXPERT ON FUNDAMENTAL DUTIES AND CELEBRATION OF INDEPENDANCE DAY 15-08-2019	15/08/2019	15/08/2019	117
CELEBRATION OF REPUBLIC DAY 26-Jan-20	26/01/2020	26/01/2020	119
Rangoli Competition	16/01/2020	16/01/2020	15
Mehandi Competition	16/01/2020	16/01/2020	18
Safety Riding Training by Honda Motorcycle Scooter Pvt. Ltd. for girl students	05/03/2020	10/03/2020	109

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

Paint Schools Every one of us should take a joint venture to support the government like keeping our cities/towns neat and clean which is the responsibility of all of us. As an initiation, Theem aimed to take a responsibility of repainting various schools in rural areas of Shakar Dam near Vangaon as well as its surroundings. The NSS volunteers involved to paint the schools of Shakar Dam near Vangaon with the images of mathematical formulae, numbers, shapes, letters and different colours meaning so that students can easily understand the learning aspects.

Tree Plantation Drive In between the COVID19 pandemic circumstances, our college National Service Scheme (NSS) unit had taken a step to keep on its responsibility towards nation and nature. It organized a Tree Plantation Program in campus as well as near the college campus on 26th July 2020. In this program, Mr. Gyansingh was invited as the chief guest who was an industrialist and eco-friendly service provider. The staff and students who were lived near the college had taken part and all courses were made to plant a tree each at chosen places. Plantation of banana (15), kesar mango (12), kaju (10), Taiwan papaya (10) etc. were completed in this drive. The objective of this drive is to sensitize the students towards the importance of trees which keep green environment on and stop global warming.

Swachata Abhiyan The National Service Scheme (NSS) also organized Swachata Abhiyan on 1st October 2019 at Betegaon village. The NSS volunteers clean the area of the village and transported all the waste away from the village to the compost pit. The motive of this drive is to achieve universal sanitation coverage and to encourage hygienic sanitation practice among the people.

Waste Management The institute has taken many initiatives for solid waste disposal by implementing solid waste management and waste segregation rules. Dustbins are placed in every classroom, laboratories, rest rooms and canteen as

well as at different locations in the campus. All the waste/garbage collected from the campus is segregated at source and disposed of in a proper manner. The institution follows the systematic procedure for proper management and disposal of liquid waste. The wet waste is given away to bio fertilizer plants for making eco-friendly fertilizers.

Poster Painting Competition for Eco-friendly Motive The next activity organized by NSS is a Poster Painting Competition for Eco-friendly Motive in which students of all courses were participated and displayed various posters related with eco-friendly images that motivated the spectator to keep environment benefitted to people and other living things. The aim of the competition was to encourage and built up an eco-friendly atmosphere and it was achieved.

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 build curiosity among school students in science and technology ? To impart the knowledge of renewable sources of energy around us ? To explore innovative ideas in scientific products ? To inculcate creativity and competitiveness among school students ? To create awareness of technical education and its career opportunities ? To motivate students decision-making in their higher studies especially in engineering 3. The Context As the institute is situated in outskirts of Mumbai at rural area of Boisar, it tries to provide opportunities to the rural students in science and technical education. It arranges "Technical Fair" every year in the name "Science Exhibition" where the various rural school students participated to display the different science and technology projects. The winners of the competition were awarded with trophies, medals and certificate of "Junior Scientists." 4. The Practice In this Technical Fair's Science Exhibition competition, it allows minimum three entries from each school with maximum three members in a group. The school has to register at first according to their project the institute provide them facilities which could help them to display their mini project's hardware and software in the exhibition at free of cost. The institute invites jury from industry, junior college. After the inauguration, the jury starts inspection and justifies the process of projects and then declares the result of the winner and the runner-up and trophies, medals, and certificates are awarded. 5. Evidence of Success The main objective of this program is to build relationships among schools, colleges, and industries and to introduce rural school students to the benefits of science and technical education. The institute notices the new innovative projects and motivates final year students to implement those ideas to bring an innovation. 6. Problems Encountered and Resources Required Problems Encountered: The lack of knowledge in higher studies makes the rural students not approach to it and they try to get job in industries as labour after their school and junior college studies to run their life. Resources Required: The institute provides bus services to all the participants from Boisar railway station to college and facilitates refreshments to all the participants and the teachers. This is one of the greatest events organised by Theem COE which highlights paths of the technical field to the entire rural pupil of Boisar. 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: ? To develop interest of technical education among the school students ? To give career opportunities options after studying technical education ? To give career information, suggestions and guidance in order to develop positive personality ? To increase the confidence among students and prepares them to grab every possible opportunity towards employability ? To impart knowledge about planning 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 important activity of an academic institution that helps students to choose and carry forward their academic and achieve their professional goals. The institute conducts this guidance not only for secondary students but also for engineering students to give complete awareness about the job opportunities around the world. 4. The Practice This programme is done to the students of 10th and 12th to create awareness on science and technical education. The teaching and non-teaching teams visit various schools and colleges to provide various aspects of education and career guidance and then counsel them how to choose the right programme. The team guides them how to qualify them in entrance exams that would fruit their chances for the admission in an institute of their choice. It also clarifies them the details of seat availability in different branches of engineering. 5. Evidence of Success Career guidance has helped the students to succeed in campus interviews, higher studies as well as various other competitive exams. Students have been transformed into a matured and responsible technocrat. From career guidance students have gained huge confidence in choosing a career option. Career guidance counselling has developed a strong relationship between the faculty and students which in turn has helped 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 principal of the schools and colleges to attend the programme during COVID19 pandemic, 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 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:- "Book Report" and "Public Speech" 2. Objectives of the Practice: ? To provide the knowledge of public speaking and presentation skills through Book Report ? To give a chance to demonstrate on-stage professional skills in front of jury and the audience. ? Training students for corporate ethics with effective communication skills and a multidisciplinary approach. 3. The Context University of Mumbai prescribes different subjects for enhancing English Communication Skills among engineering students. In the second and fifth semesters, students learn the importance of communication theory with ethical codes of business activities. The subject "Professional Communication and Ethics" helps first-year students improve their professional abilities and presentation skills. The subject "Business Communication and Ethics" helps third-year students to develop professional writing skills such as book report, technical report, research reports, survey reports, etc. 4. The Practice They prepare speeches on different topics and present it as a story-telling which build their self-confidence and presentation skills. The Humanities Department conducts Talent-show Competition in every semester and the jury evaluates the participants' skills and select the winners who are awarded with trophies and certificates. This practice improves their corporate world employable skills. 5. Evidence of Success Students are 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 Problems Encountered: The maximum students are from vernaculars and their lack of knowledge in on-stage presentation English vocabulary and construction of sentences make them fear to present their skills. Resources Required: The institute provides PA system for public speaking practice and allows students to do rehearsal before the real performance. By using this technique, they improve their presentation skills and public speaking abilities. Best Practice 4: 1. Title of the Practice:

"Felicitation of the Academic Topper's" 2. Objective of the Practice: ? To admire their hard work in academics. ? To motivate the student in their academic performance. ? To build competition environment among the student for achieving top rank at the University of Mumbai. 3. Context The purpose of this is to create the interest among students in academics and it provides many Industrial Visits which help them to improve their projects of their academics. To motivate the student for the academic performance, the award show is organized by the institute. 4. The Practice Theem COE conducts the award in the college for each department students every year who have gain success 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 dedication to achieving magnificent results. All the topper students are appreciated by the delegates and hence really motivate juniors. 5. Evidence of Success The main objective of the program is to inspire the student to shine 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 outcome 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 Problems Encountered: Resource Required: The date and timings where adjusted for the event from administration according to the students comfort. The bus facility is provided for the student and parents those were attending for this event near Boisar railway Station. This is one of the greatest events conducted by Theem college of Engineering which will motivate the student for achieving future goals.

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_19-20/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 which was started at its own earmarked premise on 31 July 2018 enabled students to carry out their innovative projects with equal attention on safety of self and machines. The workshop's liberty environment made all the projects to obtain tangible products as 'Quality Innovative Products' within the cost-conscious. This approach encouraged the budding engineers to acquire technical and professional skills and motivated to work in team 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: The Mechanical Engineering students' teams participated in Departmental Mini Project exhibition "Rocker Boogie Mechanism" held on 10 April 2019 at Theem COE, Boisar. The students of Mechanical Engineering 1) Mr. Ansari Ahmedraza 2) Mr. Ansari Dayan 3) Mr. Bisht Rahul 4) Mr. Jiggesh Prasad Gupta designed "Rocker Boogie Mechanism" and won the first prize. Another mechanical team 1) Mr. Kunal Agre 2) Mr. Shreyas Bagwe 3) Mr. Daywat Bari 4) Mr. Gangasagar Chauhan designed "Wall Climbing Robot" and secured runner up-I in the competition. The Electrical Engineering students' team 1) Mr. Yogesh Gharat 2) Mr. Nilesh Chauhan designed "Voice Controlled Car" and own the runner up-II prize. This achievement is one of the initiations of the project-based learning environment that added one more laurel to the

institution. Thrust: The primary effort to achieve the innovative project goals was a success through the teams of engineering student projects. A team of 30 students (BLITZKRIEG GROUP) participated in MEGA ATV CHAMPIONSHIP 2021 organized by Auto Sports India in association with FMSCI in Goa, Maharashtra from 09 April to 13th April 2021. (Season 5 6). Following the benefits in taking Part in Mega ATV Championship. 1. Hands on experience in the design, manufacturing, components purchasing of automobiles industry in college itself 2. Improvement of project management abilities. 3. Stress handling and on time completion of project with emergency situation handling skill improvement will be there. A team of 06 students (REBELZ GROUP) participated in Virtual Smart India Hackathon 2020 organized by MHRD Government of India Software Edition grand finale from 01 August 2020 to 03 August 2020. As the name suggests in hackathon we try to use tech to hack into real world problem to solve them. Its a 24-72 hours product making competition where every team needs to develop a product from scratch during those pretty hours. A team size varies from 2-6 as per the organizer regulations. It is a platform that should give participants the freedom to collaborate and work on various hacks on a software or to collect ideas. Hackathons should 1. Foster innovation through collaboration. 2. Inspire participants to present actionable ideas. 3. Help participants to discover talent and creativity.

Provide the weblink of the institution
http://theemcoe.org/attachments/AQAR_19-20/Distinctivness.pdf

8.Future Plans of Actions for Next Academic Year

1. Plans under way discussion for conduction of an International Conference on Humanizing Work and Work Environment (HWWE 2020) in the coming academic year planned and scheduled from 10th to 12th Dec 2020. 2. Plan to conduct National Conference THEEM-21 during upcoming academic year. 3. Plan to conduct STTP on Advancement in Data Science for faculty of our Institute and from other engineering colleges of India. 4. Expansion proposal of induction of new programs namely: a. Artificial Intelligence and Machine Learning, and b. Data Science, etc. 5. Laboratory and facilities up-gradation accordingly new program sanctions. 6. Empowerment of faculty by upgrading knowledge through STTPS/FDPs. 7. Automation of student's requirement: documents through mails and online. 8. Automation of fees payment process through online mode 9. Improvement in facilities of Entrepreneurship Cell Activities to incubation supports. 10. Facilitation and improvement in ICT for teaching learning process through online mode