



H. J. THIM TRUST'S THEEM COLLEGE OF ENGINEERING

Approved by AICTE (New Delhi), Government of Maharashtra & DTE, Affiliated to University of Mumbai & MSBTE, Estd. 2009
A NAAC Accredited Institute

Village Betegaon, Boisar Chilhar Road, Boisar (E), Tal. & Dist.: Palghar - 401 501.
Tel.: +917769916109 • Email : info@theemcoe.org • Website : www.theemcoe.org

Theem College of Engineering

ANNUAL REPORT – 2022-23

Theem College of Engineering is a premier Engineering Institute of H. J. Thim Trust at Boisar, Tal. & Dist. Palghar, conducting graduate Engineering Program in Computer Engineering, I.T. Engineering, Computer Science and Engineering (AIML), Mechanical Engineering, Civil Engineering, Electrical Engineering & Automobile Engineering. We also offer Diploma Engineering Program in Computer Engineering, Mechanical Engineering, Civil Engineering and Electrical Engineering.

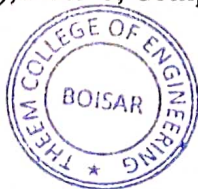
This Institution is affiliated to University of Mumbai and approved by All India Council for Technical Education (AICTE), Directorate of technical education and Board of technical education of Govt. of Maharashtra. The Institution has been accredited by the National Assessment and Accreditation Council (NAAC) in the academic year 2018- 19 and it is valid for 5 years i.e. till 2024. The Institution has also participated in National Institute Ranking Framework (NIRF – 2022) and Rank band is awaited.

The Institution has completed 14 years of yeomen service to the welfare of the society. It is established in 10 acre lush campus with its marvellous infrastructure G+3 in and around 2.6 lakh sq. ft. and emerged as a pioneer engineering college over here. The Institute has a well-equipped central library with DIGITAL access, State of the Art computer Centers, Laboratories, Internet Center, guest House, Playground, Modern Gym and maintaining the best learning ambiance required.

The total area of the Library is 12000 Sq. Ft., where more than 460 users can sit at a time and they are monitored by CCTV Cameras. The Digital facilities are provided through connectivity provided by 40 Mbps on 1:1 connectivity. The Online full text databases like, J-Gate E-Journals, Delnet ProQuest Engineering & Technology collection, ASTM Digital library, In addition, facilities like Web OPAC, NPTEL online lectures will also be accessible to the users.

All the faculty members of this Institution are involved in Faculty contribution activities such as Publications in Journals & Conferences, Funded Projects, Consultancy activities and Faculty Development Programmes and Patents (many of them are under process).

Faculty members published more than 100 research papers in Indexed journals such as Scopus, SCI journals, ESCI and UGC approved etc. The Overall college h-index in Google scholar is 20+, i-10 index is 50+, and the number of Citation is 500+. The Departments organized 05 Faculty Development Programmes and 50 Faculty Attended the various FDP/ Workshops conducted by various Institutions. The Departments of Civil, Mechanical, Automobile, Computers, CSE (AIML) and IT has organized value added courses and 5 Faculty members delivered Guest Lecture Program to various Institution. The memorandum of understanding was signed by Civil (2), MECH (3), Auto-1, Computer-1 and IT-1.





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The most prestigious feather got added in the academic excellence of Theem College of Engineering is by signing the memorandum of understanding between Bhabha Atomic Research Centre (BARC) and Theem College of Engineering under Technology Transfer. Our College staff and students will work on this funded project by BARC. Our civil engineering Dept. effectively doing the consultancy activities since last 10 years.

All our Senior Faculties are acting as a chair person in the National and International seminars, Conferences and Examiners in university programmes. Faculty interaction with the outside the world are encouraged. The Registration Fees, TA/DA for attending Conferences and various enlighten programmes are offered by the Management and many faculty members were benefited. At this juncture, I thank our management for providing such facilities to our faculty members and this enhances the growth of this Institution. The students are given opportunity to participate in different workshops, training programs at IITs, reputed industries and planning to have academic partnership for the sustainable development of our Institution, faculty and students.

Through these initiatives the India's four important visions namely Skill India, Digital India, Start-up India and Make in India are built among the students and Our College IIC i.e. Institute Innovation Council is working hard to provide the platform for faculties and students the flagship initiative to promote the culture of innovation and entrepreneurship. This is how the Theem College of Engineering has always given priority to the students for the well-being of their future.

Theem College of Engineering has vibrant Internal Quality Assurance Cell (IQAC) through which all quality initiatives being conducted to fulfil institute's Vision and Mission. IQAC of the institute cater all stake holders of the institute through various activities as summarized follows:

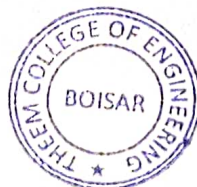
1. Conduction of Academic Audit:

Internal Academic Monitoring Committee (IAMC) regularly conducted meeting to check and review academic progress and suggested pedagogical methods to improve the students learning. Course files with records of all students' academic progress were duly maintained.

2. Conduction of Conference:

In the series of National Conference "Trends N Herald in Engineering and Metamorphosis (THEEM)", the institute successfully conducted the conference THEEM-2023 on 28th-29th April 2023. More than 200 papers were received, among them 102 papers were selected for oral presentation and were published in the proceeding of the conference (ISBN No.978-93-5811-637-3). 16 high quality papers were referred to UGC approved journals:

- ICTACT Journal on Soft Computing
- ICTACT Journal on Data Science ad Machine Learning
- ICTACT Journal on Microelectronics





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3. Conduction of NAAC sponsored Workshop:

A national workshop titled "Quality Assurance in Higher Educational Institutes by using Open Educational Resources" was held at Theem College of Engineering, Boisar on 9th and 10th June, 2023. Over 100 teachers from higher-educational institutes from all over India, both offline and online, participated in the event which was sponsored by the National Assessment and Accreditation Council (NAAC). Various open educational software like Latex, Scilab and Linux were presented by eminent teachers, also hands on practice was delivered in the afternoon session.

4. Student and Faculty Development Programs:

FDPs were organized by IQAC to boost the academic qualities of teachers:

a) Faculty Development Program on "Data science using Python"(2.1.23 to 6.1.23)

Organized by AIML department with no of participants 30. This program helped the faculties to acquire knowledge about the course, which will be helpful for them in the teaching learning process.

b) Faculty Development Program on "Solid Works Advanced Practices"(2.1.23 to 6.1.23)

Organized by Automobile department, no of faculty benefitted was 12. The program aimed for skill development and succeeded in achieving its goal.

c) Faculty Development Program on "Finite element analysis" (3.7.2023 to 8.7.2023)

Organized by Mechanical Department, no. of faculty benefitted was 10.

These programs were very much beneficial to faculties and helps them in their progression in teaching learning techniques.

SDPs were organized by IQAC to spread knowledge and improve academic qualities of students:

a) Students Development Program on "Solid Works Advanced Practices"(29.12.22 to 6.1.23)

Organized by Automobile department, no of students benefitted was 30. The program focused on skill development of students and was greatly helpful.

b) Students Development Program on "Data science using Python"(30.1.23 to 3.2.23)

Organized by IT department with no of participants 70. The program spread the knowledge about this comparatively recent subject among students and immensely motivated them.

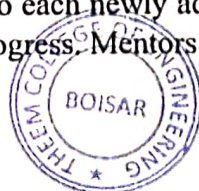
c) Students training program on Aptitude and Soft skills (19.6.23 to 26.6.23)

Training and Placement cell organized a students' training program for aptitude, group discussion etc. to boost employment possibility of students, in collaboration with Campus credential. 150 no. of students got trained and benefitted.

These programs were in a great way beneficial to students for their knowledge and skill enhancement.

5. Mentor-mentee Program:

Like every other year, this year too each newly admitted student is assigned a teacher mentor to keep an eye on his academic progress. Mentors keep regular interactions with their mentees





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to be aware of their progress and any kind of problems they are facing. If required the higher authorities are also involved in solving the problems.

Weekly mentor-mentee meeting is assigned in the time table. Mentors personally take interests in mentee's professional and personal well-being, so that each student may follow his dream, achieve their goal and grow up as a complete human being.

6. Activities of Institute Innovation Council (IIC):

Under the guidance of IQAC, IIC successfully conducted various programs to motivate students for start-up and innovation throughout the year.

a) MOE's IIC, IQAC and AICTE sponsored Impact lecture series:

On 15th July 2022, two sessions were conducted

i) "Entrepreneurial Project Development" by Prof. K.T.V. Talele

ii) "Start-up culture in academic campus" by Mr. Dinesh Israni

On 26th July, two sessions were conducted

iii) "Think like an entrepreneur" by Mr. Rahul. K. Jain

iv) "Innovation driven entrepreneurship" by Mr. Santosh D. Khawale

The series of lectures motivated the participants for innovation and entrepreneurship.

b) Institutional Mentor-Mentee meeting with Mentors from D J Sangvi College

Theem College of Engineering as one of the Mentee colleges of the mentor college D J Sangvi College, arranged for this meeting for guidance and collaboration. Different topics related to start-up and innovation were discussed in presence of all the students and faculty members of IIC, Theem College of Engineering, and the experts from the mentor college.

c) Following workshops by eminent personalities were organized to motivate students on the topics

i) Build your start up on 31.10.2022, speaker: Prof. Abdul Majid Ansari

ii) Intellectual Property Rights and IP management for start-up on 22.5.2023 Speaker: Prof. M A. Gulbarga

d) Expert talks were organized on the following topics

i) Entrepreneurship on 21.9.2022 by Dr. Divya Padmanabhan

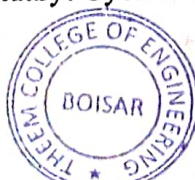
ii) "Process of Innovation development, Technology Readiness level, Commercialization of lab technologies and Tech-Transfer" by Dr. Rajesh Bisane

e) Various days were celebrated

i) National Energy Conservation Day on 14 December 2022: Essay competition on the theme "Impact of Energy Conservation on Social Life" organized by Automobile department

ii) National innovation day on 15th October 2022: poster competition on "Innovation in daily life" organized by IT department

iii) National Pollution Day on 31st January: Cyclothon 2023





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- f) Organized an intercollegiate Hardware based mini project competition for students, organized by Mechanical department.

IQAC established an echo-system through IIC to strengthen Research and Development, Innovation, Start-ups and Entrepreneurships.

7. Outreach Activities:

IQAC through National Service Scheme (NSS) celebrated different days like Yoga day, Gandhi Jayanti, Independence Day, Republic Day etc. NSS also celebrated Women day with a workshop for girl students and faculties on personality development and personal hygiene. Tree plantation, blood donation camp, Har Ghar Tiranga, Unity Run, Swachhata Abhiyan etc. were also organized on different occasions. NSS adopted a nearby village "Kukare" and ran a free eye camp there for villagers.

NSS activities were performed to spread social awareness, to reach out to disadvantaged members of the community, to build up ethical and moral sense among the students.

8. Submission of Reports:

The Institute performed all statutory requirements and submitted following reports on given time:

- i) IQAC submitted AQAR4 report on: 5.11.2022
- ii) AISHE report submitted on: 27.12.2022

ACADEMIC EXCELLENCE:

The Theem college of Engineering has a legacy of academic excellence very year by securing the university ranks. In academic year 2021-22 following students have secured the university ranks

1. Ms. Patil Pradnya Sanjay B.E. Computer secured 07th Rank in Mumbai university
2. Ms. Singh Ankita Anil Kumar- B.E. Computer secured 09th Rank in Mumbai university
3. Mr. Nair Abhishek Ajit- B.E. Computer secured 011th Rank in Mumbai university
4. Mr. Devgadkar Abel Arvind - B.E. Automobile secured 11th Rank in Mumbai university
5. And many more students are above 9 CGPI on 10 point scale.

TRAINING & PLACEMENT CELL:

The energetic Central placement cell under the leadership of Prof. Raees Ahmed who is acting as liaisons between institute and industry, to conduct campus interviews for our students. It has built up an impressive placement record both in terms of number of students placed as well as





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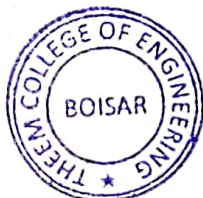
number of companies visiting the campus. To meet the industry requirements, we are regularly providing the industry training such as piping Design by Mechanical and Automobile Dept, Structural Design Courses by Civil, Machine Learning, Python, Java and DotNet and helping to impart Design and Analytical skills of the students. Every year we are offering Industry electives and rolling out Foundation programme for our students. We are also motivating the students on “Self-Learning, Deep-Learning and Life-Long Learning” abilities. An exclusive training is given on aptitude, soft skills, communication skills, and technical skills with the support of Internal and External trainers.

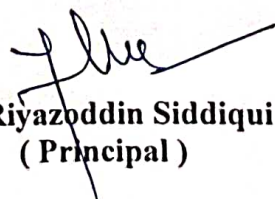
SPORTS:

Our college students are representing the national and Inter-National Level sports events. One Our College student Mr.Rutvik Pujari from Electrical Engineering has won the Gold medal in international short put Game held in Nepal and National Level Gold Medal in short put. Our Institute students have participated the national level Kabbadi held at Jaipur and qualified for international participation. Similarly, the volley team is also Runner up in national level volleyball games held at Jaipur. As such, the college is giving the best support for the upliftment of male and female students to explore their sports abilities.

HOSTED GAME – It is an honour for our institute to organize the IEDSSA games. This Inter Engineering Diploma Student’s Sports Association is the state level platform to all the diploma students for increasing their sport’s ability. The main aim of this organization is to increase their sport’s ability as well as their self-confidence. This Association arranges various sport’s activity and competitions at zonal level as well as State levels. The competition is divided into individual and team events. And for individuals, competitions like Athletic, Chess, Wrestling, and Weight Lifting are available. The events like Kabbadi, Kho-Kho, volley ball, Basket Ball, Hockey, Football, Table Tennis, Cricket, Carrom, 4 X 100 relay, Basket Ball are also available. Our college have organized Athletics and also own many games in different zones.

The report is presented for consideration and valuable suggestions.




Dr. Riyazoddin Siddiqui
(Principal)