



Success... through
quality education !

H. J. Thim Trust's

Theem College of Engineering

Approved by AICTE (New Delhi), Government of Maharashtra & DTE

Affiliated to University of Mumbai & MSBTE

"A NAAC Accredited Institute"

Village Betegaon, Boisar Chilhar Road, Boisar (East), Tal. & Dist. Palghar - 401 501.

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Ref. No: TCE/EST/2023-24/105/6.2.1

Date :- 07/10/2023

Perspective and Strategic Plan

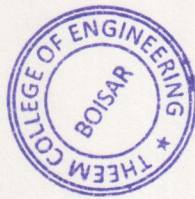
Subject: Documents of perspective and strategic Plan.

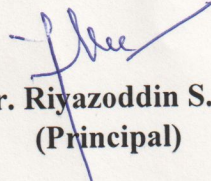
Reference: 6.2.1- The institutional perspective and strategic Plan effectively deployed.

The Institute prepare and follow the perspective / Strategic plan. The institute has deployed various activities as per plan and taken the review of the action taken through IQAC.

Documents reflecting the Plan and implementation of activities by institute enclosed herewith.

Detailed documents are available with the Institute.




Dr. Riyazoddin S.
(Principal)

Enclosure:

- i) Strategic Plan
- ii) IQAC: Minutes of Meeting
- iii) Action taken Report of IQAC



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Strategic Plan-IQAC

Objective 1: Facilitating Industry Institute Interaction Programmes to explore employability by internship, industrial projects and field work through MOUS collaborating with industry and research organizations.

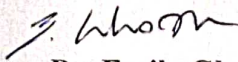
- Institute and departmental level collaborations and MoUs, in the respective areas for internship, guest lecture, employable skill development, consultancy etc.
- Regularly arrange the industry visit to inculcate industry and field knowledge.
- Facilitate to make available industry level live projects, to understand Industry requirement and the challenges.
- Collect feedback from industry expert to assess and reduce the gap between industry and academy.

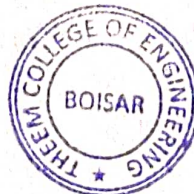
Objective 2: To improve infrastructure and resources continuously to enrich the teaching learning process.

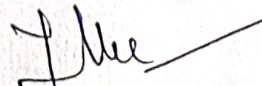
- To continuously upgrade ICT Initiatives, Smart class, Web, Internet, and LAN etc.
- To upgrade course laboratories in accordance to syllabus and latest technology.
- To ensure effective utilization of MOODLE, ICT, and learning infrastructure.
- Mentor Mentee to counsel students, Curriculum Implementation and Assessment Report (CAIR) and Academic Audit Reports, are planned to fulfil target and attainment.
- To Strengthen Research funding activities through Industrial and Research Projects.

Objective 3: To provide platform to students to test and implement, to innovate, patent, their ideas, and skill empowering.

- Theem Excellence Centre, State of art facility to train on advanced automobiles.
- Theem Makers' Vector, State of art workshop to support project-based learning.
- Theem R&D and IPR Cell. to support baby innovations, researches and patenting.
- Theem Entrepreneurship and Start-up Centre, encourages for entrepreneurship and to nurture the student ideas.
- Theem Industry Ready Quality Training Centre. State of art facility to empower employability skill.


Dr. Emily Ghosh
(IQAC Coordinator)




Dr. Riyazuddin Siddiqui
(Principal)

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Deployment of Perspective / Strategic Plan

The institute's perspective plan enriches teaching-learning process continuously to strengthen the core values as well as to improve infrastructure and resources. The institute focuses on skill-based education to develop academic and administration tasks. The institute continuously upgrades ICT and added SMART class facility. ICT ensure effective utilization of teaching-learning infrastructure. Every faculty of the institute uploads study materials like notes, PPTs, Assignments, NPTEL Video links, NPTEL PDF Links, other Video links, Virtual lab links, research papers links, case studies, objective type questions, list of modules and simulations links, links of MOOC, list of Industries related to subjects on Google Classroom which are related to the course and students access it at any place through internet. Feedbacks are taken from internal stakeholders on Google classroom and through Google Sheet, etc.

Mentor-Mentee System to counsel students, Curriculum Implementation and Assessment Report (CIAR), and Academic Audit Reports are planned to fulfil the target. To reduce the gap between industry and institute, the institute conducts Industry Institute Interaction Programmes. This programme explores employability, internship, industrial visits and industrial projects through MOUs. It inculcates students the industry and field knowledge to avail industry level live projects to experience industry challenges.

The institute has developed an ecosystem to inculcate research culture, innovation and patenting, employability enhancement and entrepreneurship among students. The components of ecosystem are:

Theem R&D and Intellectual Property Rights Cell (TRD&IPR) - "Patent your innovation".


Theem Excellence Centre Automobile (TECA) - "Enhances your knowledge".

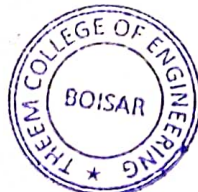
Theem Entrepreneurship and Start-up Cell (TESC) - "Ignites the innovation".

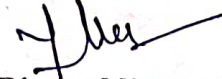
Theem Industry Ready Quality Training Centre (TIRQTC) - "Empowers employability".

Training and Placement Cell (T&P) - "Assists placement endeavours".

Institution's Innovation Council (IIC) - "Excellence through innovation"


Dr. Emily Ghosh
(IQAC Coordinator)




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(Principal)



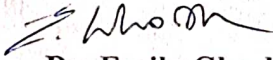
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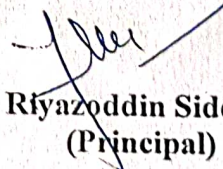
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Plan of Action for Academic Year 2022-2023

1. In the series of Conference "Trends N Herald in Engineering and Metamorphosis (THEEM)", the institute plans to conduct an international conference THEEM-2023 in the next academic year.
2. Plans to conduct Faculty Development Program to enhance the pedagogical skill of the staff.
3. To conduct "Students Development Program" on group discussion, training for interviews etc. to bridge the gap between industry and education. Also to continue with the superset platform for evaluating the students.
4. It is planned to conduct various activities under the purview of Institute Innovation Council (IIC).
5. To apply for National Institute Ranking Framework (NIRF 22), Atal Ranking of Institutions on Innovative Achievement (ARIIA), etc.
6. To start honours course on "Data Science" as per Mumbai University guidelines.
7. A workshop on "Quality Assurance in Higher Educational Institutes (HEI's) by using Open Educational Resources (OER)" to be arranged for faculty sponsored by NAAC.
8. To motivate students to take advantage of various online courses like NPTEL, SWAYAM, FOSSI etc.to increase certification.


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INTERNAL QUALITY ASSURANCE CELL ACTION TAKEN REPORT 2022-23

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

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 ware 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:

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





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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.

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.

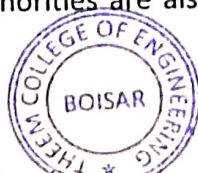
c)Students training program on Aptitude and Soft skills (19.6.23 to 26.6.23)

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 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.





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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

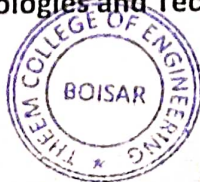
i) **Build your start up** on 31.10.2022, speaker: Prof. Abdul Majid Ansari

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





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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

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.

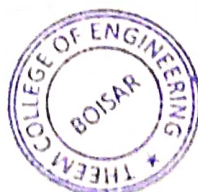
NSS activities were performed to spread social awareness, to reach out to disadvantaged members of the community, to build up ethical and moral sense among the students.

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





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9. Feedback from Stakeholders

Feedbacks were collected to review and improve academic and administrative process on the following aspects

- a) Student, Parents, alumni and employees for program improvement
- b) Students' feedback for improvement of teaching learning process
- c) Course Exit Survey and Program Feedback

The feedback data collected was analyzed by IQAC. The aspects pointed out by the stakeholders were considered and appropriate actions were taken to improve the teaching learning process.

10. Industry-institute interaction

- a) To strengthen the industry institute interaction the following MOUs are active and in place:

Sr. No	Name of the MoU / Collaboration / linkage	Name of the collaborating agency / institution / industry / corporate house with whom the MoU / collaboration / linkage is made, with contact details	Year of signing MoU / collaboration / linkage	Duration of MoU / collaboration / linkage (years)
1	Theem COE	Aqua Express Water Park Rides	2023	5
2	Theem COE	Institute of futuristic technology	2023	5
3	Theem COE	ALVIN IT Solution	2023	5
4	Theem COE	Grade and Grind Technologies Pvt. Ltd.	2022	5
5	Theem COE	Milliamps Energy Solutions Pvt. Ltd.	2022	5
6	Theem COE	Sunrack Green Technologies Pvt. Ltd.	2022	5
7	Theem COE	Sunrack Technologies LLP	2022	5
8	Theem COE	Sharif Construction	2021	5
9	Theem COE	Thim Construction Pvt. Ltd.	2021	5
10	Theem COE	Campus Credential	2019	5
11	Theem COE	CADD Centre	2019	5
12	Theem COE	iSchool Connect Inc.	2019	5
13	Theem COE	CADD	2019	5

Through these MOUs students are benefited in various aspects. Different trainings and industrial visits are arranged to expose them to industrial surroundings, they get help and advice in their projects, and also get guidance for entrepreneurship and start up.





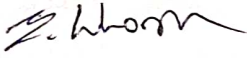
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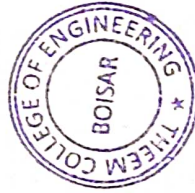
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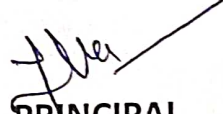
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b) A special session for research papers from industry personals was arranged in THEEM-2023 conference. Four papers were selected for oral presentation. Various eminent personalities from industry attended the session.

Throughout the year through various activities IQAC strengthen the pedagogical, administrative process of the institute to promote quality enforcement.


IQAC COORDINATOR
Dr. Emily Ghosh




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