

7.2 Best Practices

Describe at least two institutional best practices

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

1. Title of the Practice: Mission Green

2. Objectives of the Practice

- To inculcate environmental values and consciousness amongst learners, faculty and society.
- To ensure the protection of environment through green energy initiatives and effective waste management measures.

3. The Context

The environment has gone through drastic change due to factors like pollution, over usage of plastic and mismanagement of natural resources. In order to control the devastating environmental changes; public awareness regarding environmental issues is served through the numerous green initiatives and practices taken in the institute. The challenge lies in changing the attitude of the use-and-throw culture; by inculcating the tradition of recycling.

4. The Practice

The institute takes numerous Green Practices for developing environmental awareness and for carrying ahead eco-friendly programs. Some of the highlights of Green Practices in 2021-22 are:

1. An MOU has been signed for the period of one year from 9th August 2021 to 8 th August 2025, between K. C. College of Engineering and Management Studies and Research situated at Thane (E) and Ms. Rashmi Joshi, Environment Consultant, Mumbai with the following objectives:
 - To conduct awareness sessions amongst youth and students about the use of waste as well as water as resource and its relationship with climate change and global warming (Promote knowledge and provide training to students, faculty and non-teaching staff or segregation at source and composting)
 - To encourage and promote environment related activities such as Composting, E-waste Collection, Seed balls and Rainwater Harvesting.
 - To sensitize and involve students from the college / institute for promoting the concept of environment related projects.
 - To conduct periodic supervision for composting project.
 - To provide guidance to develop along with zero waste, a medicinal/herbal garden in our campus.

2. The department of Humanities and Applied Sciences has organized First year Engineering Induction program: “Webinar - Environment awareness program” on 5th January, 2022.
3. “Holi” had been celebrated with Natural colors without using water on 18th March 2022.
4. For “Baisakhi” celebration, decoration had been done with waste products and without plastic usage on 13th April 2022.
5. Online National Level Quiz Based on Environmental Science had been conducted from 2nd May to 20th May 2022.
6. “No-vehicle day” had been organized on 20th May 2022.
7. Webinar on “Organ donation” and Presentation Competition had been arranged and conducted on 21st May 2022.
8. Tree (Sapling) Plantation Drive had been organized on 3th June 2022.

5. Evidence of Success

1. An MOU has been signed for the period of one year from 9th August 2021 to 8th August 2025 for five years.
2. There were 177 faculties and students had participated for quiz program and got the certificates.
3. First, second, third and consolation prizes had been given to the learners who won the respective positions in the presentation competition.

1. Title of the practice: E-Cell and Ideation Innovation Automation and Research Lab (IIARL)

2. Objectives of the practice:

- To impart relevant skills to the students with a motive to make them self-employable.
- To help the students who are eager to become entrepreneurs, develop business ideas.
- To help both budding and would-be entrepreneurs with refining ideas and providing practical guidance.
- To undertake research activities, train entrepreneurs, identify opportunities and pursue them.
- To establish global leadership in all fields and develop competent human resources for providing services to society.
- To incubate students with sustainable business plan within the campus, thereby providing them with an ecosystem that would help them grow as entrepreneurs.

3. Context that required the initiation of the practice:

With the job openings for the engineering sectors plummeting, the admissions to the engineering streams are also affected adversely. A dire necessity to cater such an alarming situation was to find a solution i.e., by motivating students to become entrepreneurs and create an ecosystem that would create jobs for the future lot of engineering students. With the onset of our PM's initiative of startup India, there are various schemes deployed by the government of India. With extending financial support by various agencies of the Government of India like the MSMEs, SDBI, NABARD and schemes like MUDRA, innovate India, Start-up India etc. has made the start-up ecosystems to bloom within the campus. E-Cell was started with a motive that every graduating engineer must be confident enough to be self-employed if not by industry, be able to generate enough revenue that he or she can sustain life on this planet.

4. The practice:

KCCEMSR took an initiative to set up an Entrepreneurship Cell (E-Cell) for its students with a view to motivate budding entrepreneurs to establish their own startups. For the same E-Cell conducts various activities like Ted Talks, Seminars, Workshops, etc. for enhancing the skills of the students. The E-Cell is aiming at starting a full incubation center. The institute has set up a space for an incubation center under the name of IIARL. There are some startups lined up to be incubated under IIARL.

Students have gained confidence and have started working for small firms/ companies and are getting paid, thereby have grown in confidence that they can do something on their own. The E-Cell has successfully nurtured some good entrepreneurs who are doing excellent work in their start-ups.

The E-Cell team also won the second prize in the National Entrepreneurship Challenge held by IITB in 2018.

The E-Cell has received a funding of 20000/- from Entrepreneurship Development Institute of India (EDII) regarding conduction of activities / programs of Entrepreneurship Awareness Camp (EAC) under National Sciences & Technology Entrepreneurship Development Board (NSTEDB).

E-Cell students won the first prize at the Innovation Mela held at Atharva College of Engineering, Malad (W) in March 2019.

The IIARL has successfully incubated a business, “Hie Cabs. There are a few more start-ups lined up to be incubated in the near future. E-cell has successfully mentored its student members in setting up their own start-ups, like Redcliff Automation, Trek Community, Apdid Solutions, Shahi Dynatech, LL44, Hie Cabs, and Maverick.

E-Cell has conducted several seminars and workshops on various technologies, in online mode during the pandemic. E-Cell students coordinated the seminars while few students took the opportunity to showcase their anchoring skills. A handful of webinars like Brisk walk to Python and Github were taken by the E-Cell students to spread awareness about the upper hand of being in E-Cell, as these E-Cell students strengthen their technical knowledge through the guidance of alumni and team leaders. The IIARL has now been registered as an LLP and is set to incubate more startups to help students set up their businesses.

Some of the highlights of Ecell activities in 2021-22 are

1. Guest Lecture on Introduction to UI/UX Design was conducted on 5.2.2022
2. Workshop on Essential Python Libraries for Data Science (Numpy) was conducted on 8.3.2022.
3. Workshop on Essential Python Libraries for Data Science (Pandas) was conducted on 16.3.2022.
4. Git and GitHub Session was conducted on 24.3.2022.
5. IoT Session is conducted on 19/3/2022, 1/04/2022 and 5/04/2022
6. Seminar on Data Visualization with Matplotlib was conducted on 3.4.2022.
7. Seminar on Practical Guide to Responsive Web Design was conducted on 16.4.2022.

5. Evidence of Success (2021-22):

Several workshops have been conducted to enhance the skills in various emerging technologies, by students of E-Cell. Two international projects from the USA were entrusted to the students of E-Cell and a formidable amount of more than 2 lakh has been earned by the students, and the project is still on. The students are paid on a monthly basis for the work entrusted to them.

E-Cell has also developed an automated seeding vehicle for M/s Jariwala Robotics to help farmers of Tumsar. This is a prodigious project as it is funded by the ministry, it is a project which will be endorsed by various companies who are interested in this prestigious project.

A few students of E-cell bagged the internship at a US based company “Infogen Labs” and based on their performance they will be absorbed by the company.

6. Problems Encountered and Resources Required

E-cell faced a lot of obstacles in the initial stages and a few strategies were adopted in the coming years to improve them. Funding has always been a major obstacle, with others being appropriate equipment for carrying out the work and lack of time for innovation and research.

To make everyone know about the presence of E-Cell was a big challenge, to overcome this E-cell created its existence on social media. Entrepreneurship tips and Technical knowledge are being spread through Instagram posts on weekly basis, this also makes students know about the latest updates in technologies.

Requirement for students skilled in 3D designing and printing is the need of the hour but there is a scarcity of such skilled students. Students are now being trained to fill up this lacuna.

To cater to some of the obstacles like funding, the E-cell is trying to get funds from various Govt. funding agencies.

Resources required: Funds, Electronic Test & Measurement Equipment and components. 3D Printer, Laser engraver.