

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 students, staff 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 programmes. Some of the highlights of Green Practices in 2020-21 are:

1. An MOU has been signed for the period of one year from 10th August 2020 to 9 th August 2021, 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 for 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 two days FDP on Emerging Areas of Research in Science and Environment on 5th and 7th June, 2021.

3. On 5th June i.e. the world Environment Day, the first session of two days FDP was taken by Professor Yogendra Shastri., Department of Chemical Engineering, IITB on Incorporating Sustainability in Engineering Design.

4. Eco-club in association with the Department of Humanities and Applied Sciences organized an event on 9 Feb, 2022 called “One Student One Tree” - Plantation Activity. The purpose of tree plantation is to save the endangered environment and to beautify our life.

5. Eco club organized an online quiz based on Environmental Sciences for faculty and students. This quiz was conducted from 26th June 2021 to 05th July 2021. The quiz received 163 responses.

6. On the third day of F.E. Induction Program (Deeksharambh: 2020-21, 6 Feb, 2021), Mrs. Rashmi Joshi took a very interesting session on Green Initiatives for Environmental Sustainability.

6. A sapling donation day was celebrated in our campus and total 10 saplings were donated by Mrs. Rashmi Joshi (Environment Consultant) to K. C. College of Engineering and Management Studies and Research, Thane (E) on 3 March, 2021.

7. Eco Club in association with the Department of Humanities and Applied Sciences and IQAC organized a webinar on "Kitchen & Terrace Gardening" on 23 October, 2020.

8. A webinar on E waste management was organized on 31 May, 2021.

5. Evidence of Success

1. An MOU has been signed for the period of one year from 10th August 2020 to 9th August 2021, between K. C. College of Engineering and Management Studies and Research situated at Thane (E) and Ms. Rashmi Joshi.

2. The department of Humanities and Applied Sciences has organized two days FDP on Emerging Areas of Research in Science and Environment on 5th and 7th June, 2021.

3. Thirty four students have participated in plantation activity- One Student One Tree

4. 163 students and faculty have participated in an online quiz based on Environmental Sciences.

5. Three webinars were conducted on Green Initiatives for Environmental Sustainability, Kitchen & Terrace Gardening and E waste Management by Ms. Rashmi Joshi.

6. Problems Encountered and Resources Required

The institute had interest in developing Rain water harvesting project. However, due to geographical reasons like close proximity with the Thane creek and high-water table, the practice of rainwater harvesting in the institute premise is obstructed.

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:

KCCMSR 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 hand full of webinars like Brisk walk to Python and Github were taken by the E-Cell students to spread conscious 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.

5. Evidence of Success:

Evidence of success (2019-20)

KCCEMSR got the status of HIBI from MSME, which is the only institute in Thane.

RESPAWN – gaming event

RESPAWN was organized by Ecell from 31st January to 2 February, 2020 with the motive to entertain students with gaming and help them understand how games are developed and how gaming evolution is going from old to latest generation. CS GO, Dota 2, CS 1.6, PUBGM, CODM were the major games included in the event arranged within the college campus auditorium. Special PCs with high specs were rented for better gaming experience. Students from various colleges and game-zones showed their enthusiastic spirit by participating in this event. This event was a major hit which received a whopping response from the participants, as the attendance marked was around 400.

Bearable amount for registration was collected from the participants, in total Rs.1,510 was collected. In appreciation prize money was also kept for the winners. 75 students registered actively for the event. Most of them registered for all the games that were arranged. Among those 75 students who played the games, 12 students were declared as winner for the respective games. All of them got more than they invested to play the games. Total amount of Rs.1,500 was distributed among all the 12 students as prize money.

Evidence of success (2020-21)

Webinar – A Brisk walk into Python Programming

Despite of Covid-19, E-Cell continued to spread knowledge by arranging Webinars. A Brisk walk into Python Programming was one of the webinars held on 13th March 2021. It was a webinar hosted by E-Cell students and the speaker was also from E-Cell. Webinar was live on YouTube and we had an amazing crowd of over 200 people watching live session. We got feedback from around 155 people. From the positive feedback we came to know about how the audience got the benefit of attending the session.

Webinar –Getting Started with Git and Github

Getting started with Git and Github was another great webinar for those who are interested in development process and want to learn about using Github to showcase their projects. This webinar was held on 16th May 2021, and live streamed on YouTube by one of E-Cell students. Speaker for the session was E-Cell student head, who took the session like a professional speaker. Registration for event was up to 60 people, where as we got nearly 150 people watching the live session. We got interactive audience from the live chat including some of their queries written in the live chat which were answered by the speaker.

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.