Vidyavardhini's College of Engineering & Technology

Founder President Late Padmashri H. G. Vartak

Approved by AICTE, DTE Maharashtra and Affiliated to University of Mumbai
NAAC accredited, 4 Programmes Accredited by NBA

Criteria Number: 7   **Criteria Name**: Institutional Values and Best Practices

Sub criteria Number: 7.2   **Sub-criteria Name**: Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice I

Title of the Practice: Transforming Students into Technically Competent Professionals

Objectives of the Practice:

- To provide a technologically inspiring environment.
- To have strong industry-institute interaction.
- To create learning opportunities in emerging areas.
- To promote competency testing through organizing and participating in technical events and competitions.

Context:

In today's global and competitive environment, the industry needs technically proficient engineering graduates. Having necessary competence by virtue of knowledge and skills in students increases their opportunities of being hired and being successful in their careers.

Practice:

- VCET emphasizes the integration of curriculum with major and minor projects to apply the knowledge gained in practical scenarios. This involves multidisciplinary collaboration and interaction with industry professionals. Also, VCET has student chapters of professional bodies and clubs that organize various technical events. A student activity center has been established to carry out various development activities.
- A dedicated Industry Institute Interaction Cell (IIIC) of VCET strives to interact with industry to increase the institute's footprints in the local and adjoining industries and provide internships, industry visits, etc., thus widening the placement opportunities for the students. VCET's alumni association also helps to strengthen industry connections and placements.
- Student development programs, workshops, hands-on training, and expert sessions on emerging technologies are conducted by Departments, professional student chapters, and Centres of Excellence alongside regular course delivery.

- Technical activities like VNPS, Oscillation, Product showcase, and Hackathon are organized in VCET. These activities are widely attended by the students. Students are motivated to showcase their technical knowledge by participating in various project/innovative-idea competitions, hackathons, paper presentations, autonomous solar vehicle, and racing car design competitions at national and international levels. These technical events also help the students interact with industry and professionals.

Evidence of Success:

The technical competencies of the students are reflected through their outstanding achievements in various facets listed below:

- Five VCET teams have reached the finals of the Smart India Hackathon. Two teams have won in their respective categories.
- A VCET student was part of the runner-up team at the ASEAN India Hackathon 2021.
- A VCET student was runner-up in HackWithInfy, a national-level competition organized by Infosys.
- The VCET Solecthon Team has consistently won many awards at the national and international level, such as the Innovation Award, the overall championship, Best Design, Best Solar Endurance Award, Future Startup Award, and Light Vehicle BEV Award, among many other accolades.
- The VCET Ethan Team stood 15th out of 75 teams and 13th out of 37 teams across the globe for the years 2020–21 and 2022–23, respectively, at the Formula Bharat competition.
- In the Avishkar Research Conventions, organized by the Government of Maharashtra, 19 student groups have won at the district level, 5 student groups have won at the university level, and 2 student groups have won at the state level.
- 19 student groups have registered copyrights for software applications, and 2 student groups have published their process patents.
- There has been a progressive increase in the number of internships, placements, and packages offered.

Problems encountered and resources required:

- To organize state/national-level technical events, it requires infrastructure, technical support, finance, and the availability of human resources.
- Managing the schedule of the industry expert with the academic schedule is a challenge.

- Keeping students abreast of the rapid advancements in field technology presents a formidable challenge, especially in the presence of a constant influx of new technologies. Efforts are required to identify domain experts from industry and academia.

- Creating awareness among the students regarding the importance of learning and participation in technical events is a challenge.

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This document contains the criteria associated with Best Practice 1. The documentary evidence can be accessed by clicking on the link given.

Best Practices	Particulars	Link
Best Practice 1	Supporting documents	https://vcet.edu.in/NAAC/7/7.2.1_Best_Practice_1_supporting_signed.pdf
	Evidence of Success	https://vcet.edu.in/NAAC/7/7.2.1_Best_Practice_1_Evidence_signed.pdf