

NARULA INSTITUTE OF TECHNOLOGY

81, Nilgunj Road, Agarpara, Kolkata -700109

Phone – (033) 25638888, Fax –(033)2583 7029

Website : www.nit.ac.in , E-mail : info@nit.ac.in

Best Practice

Title: BCT - Beyond Curriculum Training

Narula Institute of Technology has emerged as a spearhead in shaping the career of the students by making them industry ready. The institute is in a constant process to build a strong bonding between the students, facilitators and researchers across the globe which opens up a novel scope in the field of technology to those who are in quest of technical education. In view of this the institute introduces new courses and revises its curriculum as per the demand of the ever-changing educational scenario to keep pace with the new trends worldwide. Besides mastering the technical aspects of engineering the institute aims to ensure that students would also add new dimensions which will help them to cope up in this competitive world. For this the institute organizes **Beyond Curriculum Training (BCT)**. The training provides a platform for the students to interact with the professionals from various industries to fill up the gap between the Curriculum and the Industry needs. The institute arranges for industrial projects and internships for the students as a part of this training. BCT also helps to design and update the curriculum by taking suggestions from the industry experts on regular basis.

OBJECTIVES: To ensure that the students develop technical skills and core competencies to become effective technocrats to serve the industry and corporate world with utmost professionalism.

THE CONTEXT:

In this context to make the students more employable and enterprising in the job market, the institute organises training programs for the students from 2nd year to final year. Based on their existing skills at each level, various technical courses are offered to the students in each semester. These courses assist them to update their current Industrial/Corporate expectations and enhance their adaptability. The courses are offered as per their stream in a form of subject basket from where the students can select one topic during each semester under the guidance of their respective mentors. After completion of these training, the students get certified through a process of evaluation.

THE PRACTICE:

The training programs conducted by in-house corporate trainers in coalition with industry experts, are highly customized and devised to develop one's thought process with profound technical and management skills. The training prepares the students to face global market with undaunted confidence and solution-oriented approach. The students are taught about the practical scenario of the industrial applications and gain other product development-oriented knowledge. They are also motivated towards the achievement of higher studies and research-based activities. The training is provided as per the topic selected by the individual student. The duration of the training program is at least 40 hours per topic and is organized before the

commencement of each semester. In the vacations between the semester's trainings are involved to carry on the continuous knowledge enhancement of the budding engineers. The continuous monitoring of the students' performance is conducted through assessment. After analysing the requirement of a particular skill set from industry and collecting feedbacks from students and other stakeholders, few of the topics from BCT is incorporated in the curriculum. In the year of 2016 and 2018, certain topics from BCT basket were adopted to Curriculum as per the industry demands.

EVIDENCE OF SUCCESS:

The students try to become the befitting candidate in this ambience through their technical skill up-gradation. Different types of industrial trainings, internships, job-oriented training information are provided to the students. These types of programmes enable them to compete with the other students with enhanced efficiency. They have become more confident with their special qualities such as creative problem-solving abilities, data analysis, designing etc. The BCT training has shown a huge positive impact on the betterment of the students' skill sets. The training program has helped the students to participate in research works by working in association with their faculty advisors. The students are gradually becoming more self-reliant in their process of learning. This training process is gradually preparing the students for better positions in industry or academia, where they can contribute towards the improvement and advancement of the community and society at large. According to the new regulation of curriculum of 2018, the incorporation of training related subjects which are very much needed for the preparation of the students to be industry ready has shown its immense effectiveness. The students are getting chances in internships from the pre final year and also are able to prepare themselves for the entrepreneurship-oriented initiatives through their real-life project outcomes.

PROBLEMS ENCOUNTERED & RESOURCES REQUIRED:

1. As Beyond Curriculum Trainings are not having any credits associated with it and Non-Credit basically implies that the classes won't be counted toward any degree requirement, some students are found not to attend the courses regularly.

Solutions: Beyond Curriculum Trainings are made a part of Mandatory Additional Requirement (MAR), under which the students must mandatorily earn certain marks to complete their course. This has helped to improve the attendance. The mentors also motivate the students to understand the importance of earning additional certificates of skills for getting employment. For such students separate training is imparted for the GATE examination.

2. Non availability of quality trainers having knowledge in latest industry requirement remains a challenge.

Solutions: The institute is training their own faculty members with latest technology by sending them to various Faculty Development Programs "Train the Trainers", motivating them and funding the faculty members for the MOOCs courses related to the same. The institute also organizes seminars workshops and other developmental programmes.

3. All students are not interested in joining industry and hence don't attend the training.

Solutions: There are three categories of mindset among the students –

- i. To be Industry professionals
- ii. To pursue Higher Studies
- iii. To be entrepreneur.

The first category of students is trained as per the industry requirements through projects. The second category of students is not interested to choose BCT courses and for them training to

appear in GATE, CAT and other relevant Competitive examinations are arranged by the mentors. For the third category of students Entrepreneurship Awareness Programs/ Camps (EAC) are organized.

Resources Required:

- Necessity of industry experts.
- Requirement of academic resource persons from other renowned institute of Higher learning.
- Need of more laptops and licensed software.