



SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Ghatkesar Municipality, Medchal-Malkajgiri Dist., - 501 301

7.2.1

Two Best practice studies successfully implemented by the Institution as per NAAC format provided in the Manual

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Best Practice: Industry Institute Interaction

Title of the practice: Human resource development is a vital source of strength in country building, according to Industry Institute Interaction. The success of the industry is largely determined by the caliber of the individuals that work there. The Industry Institute Interaction Cell is a programme that aims to promote interaction between industry and institutes in order to create employable human resources.

The context: Industry is dynamic, with rapid advancements in a variety of fields. Only through industry- institute collaboration can skills be developed. Industry-academic contact is a vital procedure that can give necessary inputs to the academic institute in order to help teachers and students develop the skills they need. Institutions get access to up-to-date curriculum, a source of cash through consulting, a supply of personnel for employment, social relevance, and, most significantly, a brand identity. Faculty will also be exposed to the most up-to-date industrial practices in order to improve their teaching-learning processes. Students benefit from hands-on instruction, while society benefits from higher-quality goods and services. It is vital to have an industrial institute contact to fulfil the demands of the market and to mould the students according to the requirements of the industry in the spirit of competition high by motivating students to engage in projects. To work toward a student's complete development expand the quantity and quality of opportunities for students. To improve the average package offered and the number of placements by partnering with superior package businesses.

Objectives of the practice:

- The IIIC's mission is to foster ongoing collaboration with industry in order to close the gap between industrial opportunities and academic results.
- Raising student awareness of social issues, as well as improving consultation services
- To encourage students to participate in industry training in order to gain the necessary exposure and experience.

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- To the greatest degree feasible, make use of existing resources such as laboratories.
- To determine the industry's needs and give solutions.
- To fine-tune the curriculum to meet the needs of the industry
- Increasing the availability of marketable workforce by improving student skills.
- Organizing workshops, seminars, conferences, and seminars with faculty and industry collaboration.
- Inviting engineers and industry professionals to give presentations at engineering institutions.
- Organizing industrial visits for individuals.
- Interaction between industry professionals and students in the creation of curricula.

The practice: Counselling and awareness meetings were scheduled on a regular basis to provide students with career counselling and planning make decisions about their immediate and long-term objectives. Assessments were designed to help students better understand their learning skills. Guest lectures from industry experts in many sectors will be given to discuss the extent of disruptive technology, and the necessity to update to remain relevant. Internal assessment platform allows for the selection of a pool for a tailored and holistic training strategy. Competitive coding and dynamic programming as part of advanced IT training for top performers with consistent performance since 1st year during B.Tech III year for top performers with consistent performance.

Beginning in their first semester, the institution provides well-structured skill training programmers for students of all areas of B.Tech. And MBA, which helps them develop gradually. Third-party training partners are used to deliver classes throughout the III, IV, V, and VI semesters. This is done because the instructors have industry expertise and appreciate the necessity to bridge the gap between curriculum and industry requirements, as well as the demands that the sector places on new graduates. Students are provided inputs depending on the needs of different companies. During the summer holiday, students are encouraged to pursue internships. Students in their final year are encouraged to complete their final projects in a relevant business, such as building or manufacturing. Industry and alumni are both considered stakeholder groups and members of the board of studies. This aids in the improvement of syllabi in accordance with societal requirements and technology advancements. Graduates gatherings are held on a regular basis to foster connection

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among alumni working in various industries. This aids in the upgrading of students in accordance with industry expectations. The institution enters into MOUs with industries to aid knowledge transfer and industrial preparedness. Field visits and industrial tours are provided to technical students in order to expose them to field needs, manufacturing process processes, and the many phases involved in the final output. Management students are encouraged to participate in industry tours where they are taught various management skills. IIC is critical in obtaining consulting and placement opportunities from various organizations. IIC strengthened its ties with industry. The IIC has discovered a disconnect between industry need and the institute's ultimate result. The cell serves as a link between practitioners and academics alike. As part of their academics, our students have visited GSI, NIAR, NICMAR, INFOSYS, KTTTP and Cyient for skill training and to learn about the manufacturing, quality, and other processes

Obstacles faced if any and strategies adopted to overcome them:

Some students, particularly female students, are not sent on industrial visits or internships by their parents because they are concerned about taking their kid away from the college. Parents of students are encouraged to attend industrial tours and visits by informing them about the importance of the experience and the safety precautions that must be followed. This contributed to an increase in total participation.

It is necessary to have laboratories to conduct consultations collected from industry in order to apply this technique.

Regular alumni meetings, which assist enhance industry relationships, should be held to maintain interaction with alumni working in various industries. It offered a forum for both Students and staff members to become aware of industry expectations for skill sets that students must possess in order to be employable.

Through industrial visits, summer internships, and industry projects, IIC provides several chances for students and professors to get industry experience.

The IIC aided industry people in upgrading their credentials, knowledge, and competence via higher education, continuing education, and training.

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Impact of the practice:

- The number of placements has increased.
- Establishing a solid working relationship with the industry.
- These activities aid in producing a confident output capable of dealing more successfully with social difficulties.
- An increase in the number of consultancies.
- A rise in the number of qualified professors.
- Improving the effectiveness of the training and learning process.
- The applicants' employability skills have improved.
- The number of people with technical skills and those who are employable has grown.
- With more offers for placements and a higher average package, the number of campus positions provided has increased.
- Through contests Skill specialized Placements, students have won a number of local, regional, and national competitions as well as employment offers.
- Students receive more practical understanding by visiting any industry and learning about the process.
- They can apply this practical knowledge to their academic work or utilize it to start their own businesses. This demonstrates how regular industry trips inspire creativity.

Resources required:

To bring the students up to speed, it is necessary to have a knowledgeable, experienced, and trained faculty.

The institute should be situated in such a way that industry professionals may easily reach it. To facilitate successful teaching and learning, it is critical to provide tools such as smart classrooms, cutting-edge software, and ICT-enhanced classrooms.


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**Photos of Industrial visit to
various Government and Non-Govt.**

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BEST PRACTICE - I

Report on CPRI (Central Power Research Institute) - Hyderabad. Industrial Visit

We are going to plan an industrial visit in the month of February/March for 3rd and 4th year students. So kindly grant us permission for the visit. Tentative schedule:
February 17/2/2022 March 3/3/22 March 10/3/2022 March 17/3/2022

Thanking you.

Kalpana
Assistant
CPRI UHVRL
Hyderabad

To
Ms. Indirarani,
Samskruti College of Engineering and Technology,
Ghatkesar

Dear Sir,

Sub. :Industrial visit by B.Tech students and faculty members – permission – Reg.

Ref.:Your mail letter dated 02.02.2022 With reference to your mail letter dated 02.02.2022 seeking permission for industrial visit by B.Tech students

With reference to the above permission is hereby accorded for industrial visit on 03.03.2022 (One batch Approx.40 students) from 2.00 PM onwards. With the following conditions:

- 1) This Institute charges a nominal amount of Rs.1150/per visit & maximum 40 students per batch, payable by way of Demand Draft in favour of CENTRAL POWER RESEARCH INSTITUTE, payable at Hyderabad or by CASH before commencement of the visit, for which receipt will be issued.
- 2) A List of students and staff members has to be submitted to our Security Section before the commencement of visit.
- 3) You are required to confirm availing the above allotted date(s) for the visit well in advance.

Thanking you,
Yours faithfully


Coordinator


HOD


Principal


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On receiving the letter of permission from Central Power Research Institute (CPRI), Hyderabad, 42 students with 4 faculty members (G. Indira Rani, R. M. Brisilla, [Name], and Reshma shaik) attended industrial visit on 03/03/2022.

After getting the entry pass, an engineer took us to the [Name] First, we saw the high voltage impulse testing site. We got a good knowledge [Name] switching and lightning impulses are generated for testing the high power equipments using [Name] of capacitors of 245 KV using Thyristor circuits.




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Then we visited cascade transformer set up which is used to generate high voltage for testing devices used in high voltage transformers such as transformer bushings, isolators. On this site, the engineer explained especially about the corona testing as well as hve testing under dry and wet conditions.

We got a clear idea on, how the corona is artificially created and how and when the flash over occurs and the various testing conditions. Finally, we saw how the corona testing is done for contaminated string insulators by artificially creating contamination on a string insulator by sparking saline water on it. In all the sites, the students and the faculties asked their queries and got answers from the testing engineers. We left the premises at 5.15 pm. It was an informative, interesting and successful visit.



Queries:

1. What is the difference between switching and lightning impulse?
2. Which fault is more severe in power systems?
3. How the corona is created artificially in testing environment?
4. How the wet condition tests are done in outdoor environment?
5. Is there any safety precautions required for the people while doing high voltage testing?
6. How the contamination is created artificially in a string insulator.
7. Whether any foreign country is sending their equipments to CPRI for testing.
8. Is there is any opportunity for the students to do their project in CPRI?


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Outcome:

1. Got practical knowledge on testing of High voltage equipments.
2. Students saw the practical set up for generating the high voltage artificially for testing purpose.
3. Also, they got a practical view on varying the output voltage of cascade transformers.
4. To generate high voltage in the required level, the capacitors are connected in series using thyristor controlled circuits.
5. The first time the students saw the mega size apparatus which are used in power sectors for testing purpose.


Acknowledgement: On behalf of students and faculties We thank the Head of EEE Department and the Principal for permitting us for the industrial visit. Also, I request you to arrange more industrial visit for students which can practically train the students.

Co-ordinator
A. Suresh
Asst.professor
EEE Dept.




Co-ordinator


Hod


Principal
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BEST PRACTICE- II

Life Skill Training Program


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Report

Program Name: Life Skill Training Program

Date: 19-02-2023 to 24-02-2023

Venue: Samskruti College of Engineering and Technology

Organised : Rubicon

Trainers: Mr. A R Bhagat Rahman and Mr. Thakkella Prudhvi Kumar

Introduction: The Life Skill Training Program organized by RUBICON at Samskruti College of Engineering and Technology aimed to enhance the holistic development of first-year students across all departments. The comprehensive program, conducted from 19th to 24th February 2023, covered various crucial aspects of personal and professional growth. The sessions were conducted by esteemed trainers, Mr. A R Bhagat Rahman and Mr. Thakkella Prudhvi Kumar.

Training Topics:

1. **Organizational Structure:** The program began with an exploration of organizational structures, providing students with insights into how businesses and institutions are organized. Understanding the dynamics of an organization is crucial for students as they embark on their academic and professional journeys.



2. **Public Speaking:** Mr. A R Bhagat Rahman shared valuable tips and techniques for effective public speaking. Students learned to articulate their thoughts confidently, a skill vital for presentations, seminars, and future professional engagements.




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- 3. Presentation Skills:** This session focused on honing presentation skills, offering students practical guidance on creating engaging and impactful presentations. The importance of visual aids, body language, and clear communication were emphasized.



- 4. E-mail Etiquette:** The training program delved into the nuances of professional communication through e-mails. Mr. Thakkella Prudhvi Kumar guided students on crafting concise, clear, and respectful emails, emphasizing the importance of professional communication in a digital age.

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5. **Grooming:** Understanding the significance of a professional appearance, the grooming session covered aspects such as attire, personal hygiene, and overall grooming standards. This knowledge is crucial for students as they prepare to enter the professional world.
6. **Group Discussion:** The art of participating in and leading a group discussion was explored. Practical tips on effective communication, active listening, and presenting one's viewpoint in a group setting were provided.



Co-ordinator

Hod

Principal

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7. **Personal Interview:** Students were equipped with the necessary skills to excel in personal interviews. The trainers simulated interview scenarios, offering constructive feedback on how to confidently answer questions and showcase their strengths.
8. **Assessment:** A key component of the training program was the assessment of students' skills in group discussion and personal interviews. This provided students with a practical understanding of their strengths and areas for improvement.



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Certificates and Prizes: RUBICON recognizes the active participation of students and will be awarding certificates to all who actively engaged in the training program. Additionally, for five lucky students, RUBICON is offering a substantial Scholarship cash prize worth 3 lakhs, providing an extra incentive for participation and excellence.

Conclusion: The Life Skill Training Program by RUBICON at Samskruti College of Engineering and Technology was a resounding success. Students gained valuable insights into various aspects of personal and professional development, setting a solid foundation for their future endeavors. The program not only equipped them with essential skills but also instilled confidence as they progress through their academic and professional journeys.

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