

BEST PRACTICE – II

1. Title of the Practice: Enhancing Industry-Institute Collaboration through Industry Startups

2. Goal:

The primary objective is to foster collaboration between the institute and industry through MoUs, Centers of Excellence, sponsored projects, industrial visits, in-plant training, skill-based training (from 4:00 PM to 5:00 PM), and industry startups. This initiative aims to enhance student skills to meet industry standards while promoting innovation.

Key objectives include:

- Defining specific, measurable, achievable, relevant, and time-bound goals for industry-institute collaboration through startups.
- Establishing incubation and acceleration programs to support startups originating from academic research.
- Encouraging interdisciplinary collaborations to address complex industry challenges.
- Facilitating joint research projects between industry and academic researchers.
- Setting up technology transfer platforms to convert research into commercial applications.
- Promoting internships, training programs, and an entrepreneurial culture among students.
- Providing opportunities for startups to showcase innovations to investors and collaborators.
- Developing a long-term vision for sustainable industry-institute collaboration.

3. Context:

- The institution actively bridges the gap between academia and industry by establishing industry startups, organizing industrial visits, and facilitating faculty-student interaction with industry professionals.




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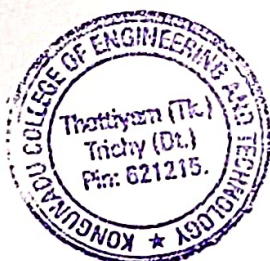
- Industry professionals regularly engage with students through FDPs, training programs, and seminars, enhancing managerial and technical skills.
- Strong incubation programs, mentorship initiatives, and joint research projects have been established to address industry challenges and advance technology.

4. The Practice:

- Over 40 MoUs with industries facilitate hands-on learning and practical exposure for students.
- Industrial visits enrich students' technical skills and provide insights into real-world work environments.
- Internships, in-plant training, and subject-based training enhance industry readiness.
- Alumni and industry experts deliver talks on recent innovations, nurturing student engagement.
- Adjunct faculty from industries mentor students in cutting-edge technologies.
- Students participate in hackathons to develop innovative skills and create prototypes for product development.
- Activity-based training programs, including value-added courses and project development, are conducted during a designated hour in the timetable.
- Japanese language coaching is provided to enhance placement opportunities in Japan.
- MSME Incubation Center, Institution Innovation Council, and Unnat Bharat Abhiyan (UBA) schemes promote innovation and entrepreneurship.
- Students are encouraged to submit project ideas to funding agencies like TNSCST, Smart India Hackathon and MSME etc., for real-time problem-solving.
- Daily skill-based training sessions are conducted from 4:00 PM to 5:00 PM.

5. Evidence of Success:

- Placement rates exceed 90% annually, with students securing jobs in reputed IT, core industries, ITES, and startup companies.
- Space within the campus has been allocated to industry collaborations and alumni startups.
- The institution is recognized for promoting innovation, entrepreneurship, and intellectual property rights.
- Students achieved notable success in national competitions like the Smart India Hackathon and India International Science Festival (IISF)-2023.




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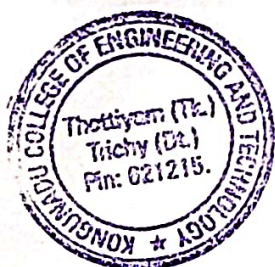
- The institution actively supports innovation and entrepreneurship, hosting 8 startups within the campus. These startups provide valuable internship and employment opportunities for students, bridging the gap between academic learning and real-world industry experience while fostering entrepreneurial growth.
- The institution has successfully secured research grants from various funding agencies to transform industrial challenges into viable products. Specifically: 6 ideas received financial support from TNSCST, 12 ideas received funding under the TNSCST – Niral Thiruvizha scheme and 3 ideas were financially supported by MSME.
- These grants have enabled the execution of real-time solutions to industrial problems. Additionally, the institution actively engages with the MSME Incubation Centre and the Unnat Bharat Abhiyan (UBA) scheme, providing innovative technological solutions to diverse challenges while fostering entrepreneurship and innovation.
- Increased student participation in hackathons, conferences, industrial certifications, and technical events has resulted in numerous awards and recognitions.

6. Problems Encountered and Resources Required:

- Balancing academics and training activities requires strategic scheduling.
- Industry experts are essential as adjunct faculty to enhance student performance.
- Specialized mentoring is needed for Tamil-medium and first-generation students to improve communication and technical skills.
- Building a startup ecosystem for students from rural backgrounds presents challenges.
- Additional funding support is necessary to convert ideas into tangible products.

7. Concluding Notes:

The institution has achieved significant progress in research and entrepreneurship development activities. The structured initiatives and collaborations have enhanced industry readiness among students and fostered a thriving entrepreneurial ecosystem.



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