



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad – 500 043

PROCESS MANUAL

INDUSTRY INSTITUTE INTERFACE CENTRE (IIIC)

INTRODUCTION

The main objective of Industry Institute Interface center (IIIC) is to provide an excellent platform for both the students as well as the faculty members to be aware of industry expectations and skill sets.

This center was established in academic year 2014-2015 to bridge the gap between academics and the industrial needs, IARE -IIIC focus on internships, industry and the academic institute relations and collaborations. In addition, IIIC works towards research collaboration, faculty and student exchange programs with National / International universities and organizations.

OBJECTIVES:

The objectives of IIIC are as follows

- To create industry ready professionals through active collaboration
- To provide opportunities to learn understand and sharpen the real time technical and managerial skills
- To provide a platform for student internships and industrial visits
- Exposure to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industry.
- Formulate and design different aspects of faculty and student exchange in terms of handling courses and enhance research collaboration in the field of mutual interest.

Major Functionalities:

The major functionalities of IIIC includes

- a. Internship opportunities
- b. Industry collaborations
- c. Academic and research collaborations

a. Internship opportunities

Internships are educational and career development opportunities, providing practical experience in a field or discipline. It will expose the students to the industrial environment and provide possible opportunities to learn understand and sharpen the real-time technical and managerial skills required at the job. It also helps to recognize the engineer's responsibilities and ethics. It is a gateway to employment. Institute always encourages the students to go for internship and now it becomes part of academic. Students can undergo full semester internship either in VII / VIII semester. In addition, institute also offers internships through well established, institutional research centers / Technology Innovation and Incubation Centre (TIIC) / Science and Technology Startup Park (STSP).

Benefits of Internship

❖ To the Students

- An opportunity to get hired by the industry/ organization.
- Earn stipend during student internship
- Internship converted into employment
- Practical experience in an organizational setting and industry environment.
- Excellent opportunity to see how the theoretical aspects learned in classes are integrated into the practical world.
- On-floor experience provides much more professional experience which is often worth more than classroom teaching helps them decide if the industry and the profession is the best career option to pursue.
- Opportunity to learn new skills and supplement knowledge.
- Opportunity to practice communication and teamwork skills.
- Opportunity to learn strategies like time management, multi-tasking etc., in an industrial setup.
- Makes a valuable addition to their resume.
- Enhances their candidacy for higher education.
- Creating network and social circle and developing relationships with industry people.
- Provides opportunity to evaluate the organization before committing to a full-time position.

❖ To the Institute

- Build industry academia relations.
- Makes the placement process easier.
- Improve institutional credibility & branding.
- Helps in retention of the students.
- Curriculum revision can be made based on feedback from Industry/ students.
- Improvement in teaching learning process.

❖ To the Industry

- Availability of ready to contribute candidates for employment.
- Year-round source of highly motivated pre-professionals.
- Students bring new perspectives to problem solving.
- Visibility of the organization is increased on campus.
- Quality candidate's availability for temporary or seasonal positions and projects.
- Freedom for industrial staff to pursue more creative projects.
- Availability of flexible, cost-effective workforce not requiring a long-term employer commitment.
- Proven, cost-effective way to recruit and evaluate potential employees.
- Enhancement of employer's image in the community by contributing to the educational enterprise.

b. Industry collaborations

Better interaction between institute and industry is the need of the hour. This will have great bearing on the curriculum design and development, exposure of industrial atmosphere to students and subsequent placements in industries across the country. To promote Industry - Institute Interaction following schemes are being undertaken.

- Establishment of industry-institute partnership /interaction center
- Initiate to assist the startups for faculty and students
- Organizing workshops, conferences and symposium with joint participation of the faculty and the industries
- Encouraging engineers from industry to visit Engineering Institution to deliver lectures

- Participation of experts from industry in curriculum development
- Arranging visits of staff members to various industry
- Professional consultancy by the faculty to industries
- Industrial testing by faculty & technicians at site or in laboratory
- Joint research programs and field studies by faculty and people from industries
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest
- Visits of industry executives and practicing engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences
- Memorandum of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer
- Human resource development programs by the faculty for practicing engineers
- B.Tech. and M.Tech. projects/dissertation work in industries under joint guidance of the faculty and experts from industry
- Visiting faculty/professors from industries
- Professorial Chairs sponsored by industries at the Institute
- R&D Laboratories sponsored by industries at the Institute
- Scholarships/fellowships instituted by industries at the Institute for students
- Practical training of students in industries

c. Academia and research collaborations

Institute has initiated collaborations with many top-notch universities around the world in countries like Indonesia, Malaysia, Vietnam, Korea, Singapore, Thailand, and the United States of America. Collaborating with other universities and sharing knowledge as well as resources with universities and academic communities throughout the world is an important part of Institute of Aeronautical Engineering's international mission. Through its strategic partnerships with the universities around the globe, the institute offers student exchange programs for B.Tech, M. Tech and MBA students, as well as opportunities to intern.

Benefits:

- A fantastic opportunity to travel and explore other culture as well as lifestyle while expanding the knowledge.
- Stimulate stronger research aptitude by encouraging collaborative publications thereby enhancing the chances of publications and impact.
- Professional growth of both the faculty as well as students via knowledge sharing while promoting inter-cultural understanding.
- Provide scope to the students and faculty for further education in global universities.

The internationalization strategy at the institute is founded on the four pillars:

- Research
- Education
- Cultural engagement
- Skill development

This strategy is also reflected in the objectives of MoUs as given below:

- Development of collaborative research
- Organization of seminars, workshops, and other meetings on specific topics
- Exchange of students
- Exchange of research scholars
- Exchange of faculty members