INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal - 500 043, Hyderabad, Telangana

Information about how to do a Summer Internship Program (SIP)

Internship is an integral part of the academic curriculum, it is a learning activity in which a student fortifies and deepens his/her theoretical knowledge and skills attained in the classrooms by integrating with practical activities.

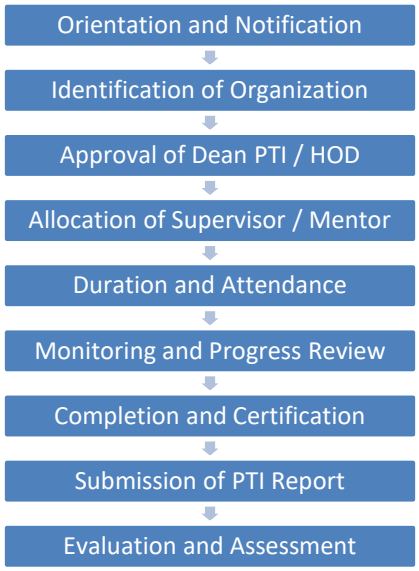
Learning Outcomes

Upon successful completion of the PTI, the student will be able to:

- Apply theoretical knowledge gained during coursework to solve practical problems in an industrial or professional environment.
- Demonstrate an understanding of industrial workflows, professional ethics, safety standards, and organizational culture.
- Identify real-life technical problems in the workplace and propose feasible and efficient solutions.
- Utilize relevant modern engineering tools, software, and technologies commonly used in industry.
- Work effectively as an individual and as a member of a multidisciplinary team, and communicate technical information clearly through reports and presentations.
- Demonstrate basic project planning, time management, and documentation skills in a professional setting.
- Recognize professional, ethical, legal, and societal responsibilities in engineering practice.
- Develop self-learning abilities and adaptability to continuously update skills in response to emerging technologies and industry requirements.

Summer Internship Program Process

The process consists of the following steps as detailed below and summarised here.



1. Orientation and Notification
The Institute shall notify students regarding the objectives, duration, and evaluation scheme of the PTI as prescribed in the curriculum.

2. Identification of Organization
Each student shall identify an industry, organization, research establishment, or professional body relevant to the program of study for undertaking PTI. The organization shall be subject to approval by the Institute.

3. Approval of Dean PTI / HOD
Prior approval for undertaking PTI shall be obtained by the student through the prescribed application process. Internships commenced without prior approval shall not be considered for evaluation.

4. Allocation of Supervisor/Mentor
The Institute shall assign a Faculty Supervisor, and where applicable, an Industry Mentor shall be designated by the organization. The Supervisor/Mentor shall guide, monitor, and certify the progress of the student during PTI.

5. Duration and Attendance
The student shall undergo PTI for the duration prescribed in the curriculum and shall adhere to the attendance, discipline, and professional conduct rules of the organization.

6. Monitoring and Progress Review
The Faculty Supervisor shall periodically review the progress of the internship. Students shall submit progress report as prescribed by the Institute.

7. Completion and Certification
Upon completion of PTI, the student shall obtain an Internship Completion Certificate (ICC) and performance feedback from the organization/Industry mentor.

8. Submission of PTI Report
The student shall submit a comprehensive PTI report in the prescribed format within the stipulated time. Failure to submit the report shall result in a 'Not Satisfactory' status.

9. Evaluation and Assessment
The PTI shall be evaluated by the faculty supervisor and committee constituted by Dean of PTI as per the evaluation scheme approved by the Institute. Evaluation may include report submission, assessment, presentation, and viva-voce.

Professional Training Internship (PTI) summarised here in brief.

S.No	Schedule	Duration	Internship Type
1	Summer Break after II semester	1 to 2 months	Field Project
2	Summer Break after IV semester	1 to 2 months	Field Practicum
3	Summer Break after VI semester	1 to 2 months	Internship

Evaluation Process:

The evaluation of the SRI will be conducted based on the following components:

1. Self-Evaluation report submitted by the student (Soft Copy / Hard Copy) to the department.
2. Certificate issued by the organization where the PTI is completed.
3. PTI Presentation (10 to 15 slides PPTs).
4. Evaluation by the PTI Committee.

Advice on writing

- The written report is very important. Consider that your report will be used as a personal merit and will be evaluated. **(click here)**
- Start the writing process early. Don't leave it till the end, but do it continuously. It takes 15-20 days to write a good report.
- Remember that good language is important. The quality of the language is a learning outcome in the course so your report could be rejected due to bad language.
- The use of ChatGPT and other Large Language Model (LLM) Applications to write your report is left to the discretion of the examiner. Consult head of the department first before you use them.
- There are no rules about the size of a report, but a report shorter than 20 pages is probably incomplete. In other words, a normal report is around 30 pages. Consult your head of the department / reviewers if you have further questions.
- Click here to access professional practice and select the Internship theme by logging in through the Akanksha Portal: https://akanksha.iare.ac.in/index?route=course/index&category_id=83
- Click here (link) https://samvidha.iare.ac.in/ to fill online internship application form.
- Here (link) is a document that contains advice for a PTI project report preparation.

Towards the end of the SIP

Submit a draft version of the report to the supervisor / reviewer before the scheduled presentation date. Once the detailed presentation schedule is published, a committee will be constituted for evaluation.

After presentation

Prepare the final copy of the report based on feedback given during the presentation. Send the final copy of the report to the supervisor / reviewer for final approval.

Questions & Answers

Q1: What is SIP?
SIP (Summer Internship Program) is a compulsory internship that gives you practical industry exposure and helps you apply classroom knowledge to real-world problems.

Q2: Is SIP mandatory?
Yes. SIP is mandatory as per institute regulations and must be completed to qualify for the award of the degree.

Q3: When should I do SIP?
SIP is usually completed during the summer vacation period specified in the academic curriculum.

Q4: Where can I do my SIP?
You can do PTI in:

- Industries or companies
- Research organizations
- Startups
- Government or private organizations

(Subject to approval by Dean PTI / HOD)

Q5: Who will supervise my SIP?
You will be guided by a Supervisor/Mentor from:
IARE and the industry/company where you are doing the internship

Q6: Can the supervisor be from industry?
Yes. The supervisor/mentor can be from industry, provided they are approved by the institute.

Q7: What is the role of a Reviewer?
A Reviewer evaluates your internship work, reviews reports, and may conduct viva/presentation. The reviewer may be from academia or industry.

Q8: What documents are required for SIP?
You generally need:

- Joining letter
- Internship completion certificate
- SIP report
- Supervisor/Mentor feedback
- Evaluation form (if applicable)

Q9: How is SIP evaluated?
PTI is evaluated based on:

- Internship report
- Work carried out during SIP
- Supervisor/Reviewer assessment
- Presentation or viva

Q10: What happens if I fail to complete SIP?
Failure to complete SIP or submit required documents may:

- Result in non-award of credits
- Delay your graduation

Q11: Can SIP be done online?
No. Online SIP not permitted as per IARE guidelines during summer vacation.

Q12: Is attendance important during SIP?
Yes. You must follow the attendance rules of the organization and submit proof as required.

Q13: Can SIP be converted into a project?
No. SIP and project work are separate academic components, unless explicitly mentioned in the curriculum.

Q14: Whom should I contact for SIP approval or issues?
You should contact:

- Dean SIP
- Head of the Department
- Assigned Faculty Supervisor