

**19CE3771 – INDUSTRIAL TRAINING/INTERNSHIP/RESEARCH PROJECTS IN
NATIONAL LABORATORIES/ACADEMIC INSTITUTIONS**

Course Category:	Program Core	Credits:	2
Course Type:	Internship	Lecture-Tutorial- Practical:	0-0-0
Prerequisites:	Nil	Continuous Evaluation:	75
		Semester End Evaluation:	-
		Total Marks:	75

Course Outcomes

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

CO1	Utilize the domain knowledge with modern tools to solve real world problems	K3
CO2	Analyse the industrial processes involved in developing / delivering the end product / service	K4
CO3	Extend professional ethics, accountability and communication skills for global needs	K2
CO4	Work effectively as individual/member/ leader in teams, preferably in a multi-disciplinary setting	K3
CO5	Make use of engineering knowledge for societal sustenance	K2

Contribution of Course Outcomes towards achievement of Program Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	3	2	2	2	2	2	2	3	3	2
CO2	3	2	2	2	3	2	2	2	2	2	2	3	3	2
CO3	3	2	2	2	3	2	2	2	2	2	2	2	3	2
CO4	3	2	2	2	3	2	2	2	2	2	2	3	3	2
CO5	3	2	2	2	3	2	2	2	2	2	2	2	3	2
Avg.	3	2	2	2	3	2	2	2	2	2	2	3	3	2

1- Low

2-Medium

3-High

Course Content

Internships are educational and career development opportunities, providing practical experience in a field or discipline. They are structured, short-term, supervised placements often focused around particular tasks or projects with defined timescales. An internship may be compensated, non-compensated or some time may be paid. The internship has to be meaningful and mutually beneficial to the intern and the organization. It is important that the objectives and the activities of the internship program are clearly defined and understood. Following are the intended objectives of internship training:

- Will expose technical students to the industrial environment, which cannot be simulated in the classroom and hence creating competent professionals for the industry.
- Provide possible opportunities to learn, understand and sharpen the real time technical / managerial skills required at the job
- Exposure to the current technological developments relevant to the subject area of training.
- Experience gained from the ‘Industrial Internship’ in classroom will be used in classroom discussions
- Create conditions conducive to quest for knowledge and its applicability on the job.
- Learn to apply the technical knowledge in real industrial situations.
- Gain experience in writing technical reports/projects.
- Expose students to the engineer’s responsibilities and ethics.
- Familiarize with various materials, processes, products and their applications along with relevant aspects of quality control.
- Promote academic, professional and/or personal development.
- Expose the students to future employers.
- Understand the social, economic and administrative considerations that influence the

CO1
CO2
CO3
CO4
CO5

working environment of industrial organizations Understand the psychology of the workers and their habits, attitudes and approach to problem solving.	
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Guidelines:

1. The student has to complete the internship for a period of 4 to 6 weeks during summer vacation between VI Semester & VII Semester.
2. The internship can be carried out in any industry / R&D Organization / Research Institute / Premier Educational Institutes like IITs, NITs and IIITs etc.
3. The registration process of internship should be completed before the commencement of IV-semester end examinations.
4. The registration process for internship involves:
 - a) Students have to approach respective course coordinator with name of proposed company / organization in which they wish to carry out internship.
 - b) The Department shall nominate guide to supervise the interns.
 - c) Student has to obtain a no objection certificate (NOC) in the prescribed format from the department and submit the same to the respective organization.
 - d) Student has to submit acceptance letter issued by the respective organization to the course coordinator.
5. The internal guide has to visit place of internship at least once during student's internship.
6. The students shall report the progress of the internship to the guide in regular intervals and seek advice.
7. After the completion of Internship, students shall submit a final report along with internship and attendance certificates to the course coordinator with the approval of internal guide.
8. The evaluation of internship shall be done during VII-Semester.
9. The student has to give a PPT presentation for duration of 10 to 15 minutes in the presence of departmental evaluation committee consists of Head of the Department, Internal Guide and Two Senior Faculty from the respective departments.
10. After the successful presentation by the student, the evaluation committee recommends the result as satisfactory for the internship.
11. In case of students who have not registered for internship / not submitted the internship certificate and report, the VII-Semester result will not be declared till completion for that student.