Computer Science Paper I
Industrial Training
[Compulsory]

Semester IV	Subject Code: MS42001	No of Credits: 20

Course Outcomes:

At the end of this course, the learner will be able to:
- Accomplish Growth Objectives that describe what you will learn or what competencies you will gain from the activities you are engaged in for your internship.
- Learn variety of professional work activities designed to provide a total learning experience

Guidelines

- Each student must individually complete **minimum 5 months** full time Industrial training/ Institutional project in the 4th semester.
- College should assign a student mentor to every student. The mentor will monitor the progress of the student throughout the semester for continuous assessment.
- Students should submit a valid offer letter and synopsis within two weeks of starting the internship.
- There will be continuous assessment of the work done by the student during the internship period.
- Continuous assessment guidelines:
- Students should submit a weekly report in the college to the mentor.
  - The report should contain the following details: Name of student, project title, company name, company mentor, daily activities and results/output, proposed work for next week.
  - The weekly report should be duly signed by the student and company mentor/ institute guide (CM).
  - Student Mentor should maintain weekly attendance record for every student.
    - Two presentations should be conducted for each student(first presentation after first month and second presentation after 3rd month)
    - Student Mentor should take feedback from the Company mentor regarding overall performance of the student.
- At the end of the internship period, each student should prepare a report which should conform to international academic standards.
- The report should follow the style in academic journals and books, with contents such as: abstract, background, aim, design and implementation, testing, conclusion and full references, Tables and figures should be numbered and referenced to in the report.

Recommended Documentation contents:
- Title page
- Company / Institute certificate
- Internship completion certificate

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- **Abstract**
- **Introduction**
  - o motivation
  - o problem statement
  - o purpose/objective and goals
  - o literature survey
  - o project scope and limitations
- **System analysis**
  - o Comparative study of Existing systems
  - o scope and limitations of existing systems
  - o project perspective, features
  - o stakeholders
  - o Requirement analysis - Functional requirements, performance requirements, security requirements etc.
- **System Design**
  - o Design constraints
  - o System Model: UML diagrams
  - o Data Model
  - o User interfaces
- **Implementation details**
  - o Software/hardware specifications, etc.
- **Reports**
- **Testing**
  - o Test Plan, Black Box Testing or Data Validation Test Cases, White Box Testing or Functional Validation Test cases and results
- **Conclusion and Recommendations**
  - o Self Assessment w.r.t. skill set achieved
- **Future Scope**
- **Bibliography and References**

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