Agile Software Engineering & Project Development Internship

(15 Days | Practical-Oriented | Industry Ready)

INTERNSHIP SYLLABUS

Internship Objectives

- Understand **Agile mindset**
- Apply **Scrum framework**
- Execute **sprint-based development**
- Build teamwork & real-world project skills

Day 1: Introduction to Agile

- Agile manifesto & principles
- Agile vs Waterfall

Activity:

Agile case discussion

Day 2: Scrum Framework

- Scrum roles
- Scrum events
- Scrum artifacts

Practical:

Scrum role mapping

Day 3: Product Backlog & User Stories

- User story format
- Acceptance criteria

Practical:

 Write user stories

Day 4: Sprint Planning

- Sprint goals
- Task breakdown

Practical:

Sprint planning session

Day 5: Agile Tools

- Jira / Trello overview
- Kanban board

Practical:

Create sprint board

Day 6: Sprint Execution – Day 1

- Task assignment
- Coding / development start

Day 7: Sprint Execution – Day 2

- Development continuation
- Daily stand-up meeting

Day 8: Agile Testing

- Test cases in Agile
- Continuous testing

Practical:

 Write sprint test cases

Day 9: Sprint Review

- Demo preparation

- Stakeholder feedback

Practical:

Sprint review meeting

Day 10: Sprint Retrospective

- What went well?

- Improvements

Practical:

Retrospective report

Day 11: Mini Project Selection

- Real-world problem

- Agile roadmap creation

Day 12: Sprint-Based Development

- Feature development

- Team collaboration

Day 13: Final Sprint

- Bug fixing

- Feature completion

Day 14: Project Demo Preparation

- Sprint outcomes

- Agile documentation

Day 15: Final Presentation & Assessment

- Project demo

- Agile workflow explanation