SYLLABUS FOR BOARD OF STUDIES ADOPTION — generated from the live catalogue record

# Industry Internship — 2 Months

IN-06 · 40 days (configurable 1–5 days) · Informatics · Software Engineering · Years: 2nd, 3rd, 4th

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## OVERVIEW

Learn, build, deploy — a focused project taken from requirement to a running application.

Two months is long enough to take one well-scoped project from a backlog to a deployed, reviewed application, with mentor review at every step.

## HOURS AND CREDIT POSITION

Contact hours: 60  Guided project: 60  Self-study: 20  Notional total: 140

**Credit claim: none**

Offered as a non-credit programme. The hours above are stated for transparency; the college may position it inside value-added / add-on frameworks at its discretion.

## COURSE OUTCOMES

CO1. Analyse a stated need and express it as a prioritised backlog with acceptance criteria (K4)
CO2. Design a component architecture and data model, justifying the trade-offs taken (K4)
CO3. Implement the design iteratively, with code review and automated tests at each increment (K3)
CO4. Deploy the application to a live environment with configuration and monitoring in place (K3)
CO5. Evaluate the delivered system against its acceptance criteria and report the outcome (K5)

## COURSE CONTENT — MODULES

Hours shown are the recommended format; module time scales proportionally when the engagement runs 1–5 days.

**Module 1 — Foundations and environment (10h recommended)**
Theory: Stack fundamentals, local and cloud environments, collaboration workflow
Lab: Pair setup and a first vertical slice
Output: Running skeleton application

**Module 2 — Requirement analysis (8h recommended)**
Theory: User stories, acceptance criteria, estimation
Lab: Write and prioritise the project backlog with the mentor
Output: Prioritised backlog with acceptance criteria

**Module 3 — Architecture and data (10h recommended)**
Theory: Component boundaries, data modelling, API contracts, trade-offs
Lab: Design review against the backlog
Output: Architecture note and data model

**Module 4 — Implementation sprints (20h recommended)**
Theory: Iterative delivery, code review, automated tests
Lab: Two sprints with review at each close
Output: Tested, reviewed increments

**Module 5 — Deployment (8h recommended)**
Theory: Build pipelines, environments, configuration, monitoring
Lab: Deploy to a live environment
Output: Deployed application with a runbook

**Module 6 — Handover (4h recommended)**
Theory: Documentation, demonstration, retrospective
Lab: Present to a mentor panel
Output: Project report and live demonstration

## ASSESSMENT SCHEME (100 MARKS)

Sprint reviews and code quality — 30 marks
Deployed application — 40 marks
Project report — 20 marks
Panel viva voce — 10 marks

## CO–PO MAPPING

CO1 !’ PO2 (strength 3)
Turning a need into acceptance criteria is problem analysis in its working form.

CO2 !’ PO3 (strength 3)
Architecture and data modelling are the design outcome of an engineering programme.

CO3 !’ PO5 (strength 3)
Iterative delivery with review and tests is modern tool and process usage.

CO4 !’ PO5 (strength 2)
Deployment and monitoring are the operational half of the same tool outcome.

CO5 !’ PO4 (strength 2)
Evaluating a system against stated criteria is investigation with evidence.

## EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access

## FEE

¹3,499 per student, incl. GST
Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

## DESIGNED BY

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