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

Industry Internship — 3 Months

IN-02 · 60 days (configurable 1–5 days) · Informatics · Software Engineering · Years: 2nd, 3rd, 4th

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OVERVIEW

Learn, build, deploy — requirement analysis through to something running in the open.

Three months is long enough to take a project past the demo and into deployment, which is the difference between a student who has coded and a student who has shipped.

HOURS AND CREDIT POSITION

Contact hours: 90 Guided project: 90 Self-study: 30 Notional total: 210

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 business 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 (15h 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 (12h recommended)
Theory: Stakeholder interviews, user stories, acceptance criteria, estimation
Lab: Interview the brief owner and write the backlog
Output: Prioritised backlog with acceptance criteria

Module 3 — Architecture and data (15h 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 (30h recommended)
Theory: Iterative delivery, code review, automated tests, refactoring
Lab: Three sprints with review at each close
Output: Tested, reviewed increments

Module 5 — Deployment and operations (12h recommended)
Theory: Build pipelines, environments, configuration, monitoring, rollback
Lab: Deploy to a live environment
Output: Deployed application with a runbook

Module 6 — Handover (6h recommended)
Theory: Documentation, demonstration, retrospective
Lab: Present to a mixed 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

¹4,999 per student, incl. GST
Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

DESIGNED BY

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