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

Git, GitHub and Collaborative Development

C-05 · 2 days (configurable 1–5 days) · Informatics · Software Engineering · Years: 1st, 2nd, 3rd

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OVERVIEW

Branching, merging, pull requests, code review and a public portfolio repository every student keeps.

Nobody teaches it and every recruiter checks it. Your students finish with a public portfolio repository they keep for life.

HOURS AND CREDIT POSITION

Contact hours: 16 Guided project: 4 Self-study: 0 Notional total: 20

Credit claim: 0.5
20 notional hours ÷ 30 hours per credit (NSQF track, UGC Micro-credentials Guidelines §5.3.3) = 0.67 credits, claimed as 0.5 (rounded down to the nearest half credit — never more than the hours support).

COURSE OUTCOMES

CO1. Apply commits, branches and merges to manage a project's history (K3)
CO2. Resolve merge conflicts and explain what caused them (K4)
CO3. Conduct a pull-request review giving and responding to written feedback (K4)
CO4. Construct a public portfolio repository a recruiter can navigate (K3)
CO5. Write commit messages and documentation that explain intent, not mechanics (K3)

COURSE CONTENT — MODULES

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

Module 1 — Version control thinking (4h recommended)
Theory: Why history matters, repositories, commits, the staging area, good messages
Lab: Initialise, commit and inspect history on a starter project
Output: Repository with meaningful history

Module 2 — Branching and merging (4h recommended)
Theory: Branches, merges, conflicts and their honest resolution
Lab: Deliberately create and resolve merge conflicts
Output: Merged feature branch

Module 3 — GitHub collaboration (4h recommended)
Theory: Remotes, pull requests, code review etiquette, issues
Lab: Paired pull-request exchange with review comments
Output: Reviewed and merged pull request

Module 4 — The public portfolio (4h recommended)
Theory: Profile READMEs, project documentation, licences, what recruiters look for
Lab: Build the personal portfolio repository
Output: Public portfolio repository

ASSESSMENT SCHEME (100 MARKS)

Continuous lab exercises — 50 marks
Portfolio repository review — 30 marks
Quiz & viva voce — 20 marks

CO–PO MAPPING

CO1 !’ PO3 (strength 2)
History management is engineering discipline.
CO2 !’ PO2 (strength 2)
Conflict resolution demands understanding both changes.
CO3 !’ PO10 (strength 2)
Code review is written technical communication.
CO4 !’ PO12 (strength 2)
The portfolio habit outlives the workshop.

CO5 !’ PO10 (strength 2)
Messages and docs are how teams share intent.

EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access
- Interview question bank
- Mock interview & viva practice
- Optional nasscom NSQF assessment (priced per candidate on your quotation)

FEE

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

DESIGNED BY

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