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

Cloud Labs for Faculty — AWS and Azure

FDP-02 · 3 days (configurable 1–5 days) · Informatics · Cloud

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OVERVIEW

Run cloud labs on a department budget, with cost controls that hold.

Cloud labs fail for two reasons: nobody owns the account, and nobody caps the spend. Both are solvable in three days.

HOURS AND CREDIT POSITION

Contact hours: 18 Guided project: 4 Self-study: 3 Notional total: 25

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. Configure cloud accounts and roles so students hold least-privilege access (K3)
CO2. Provision a complete lab environment from a reusable template (K3)
CO3. Apply budgets, quotas and alerts that cap departmental spend (K3)
CO4. Diagnose the common failures students meet in a cloud lab (K4)
CO5. Design a semester lab schedule that fits a stated budget (K6)

COURSE CONTENT — MODULES

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

Module 1 — Accounts, identity and guardrails (6h recommended)
Theory: Organisations, roles, least privilege, student accounts
Lab: Build a locked-down lab account
Output: Lab account with policies applied

Module 2 — The lab stack (6h recommended)
Theory: Compute, storage, networking and databases as students will meet them
Lab: Provision and tear down a full lab environment
Output: Reusable lab template

Module 3 — Cost control and operations (6h recommended)
Theory: Budgets, alerts, scheduled shutdown, quotas
Lab: Set budgets and trigger an alert deliberately
Output: Budget and alert configuration

ASSESSMENT SCHEME (100 MARKS)

Lab environment provisioned — 40 marks
Cost controls demonstrated — 30 marks
Semester lab plan — 30 marks

CO–PO MAPPING

CO1 !’ PO5 (strength 3)
Account and identity configuration is the core tool skill.

CO2 !’ PO5 (strength 3)
Templated provisioning is what makes the lab repeatable.

CO3 !’ PO11 (strength 3)
Budget control is project and finance management in practice.

CO4 !’ PO4 (strength 2)
Diagnosing lab failures is investigation with evidence.

CO5 !’ PO6 (strength 2)
A budgeted lab schedule is the departmental outcome.

EVERY PARTICIPANT RECEIVES

- Certificate of completion
- Course material
- LMS access

FEE

On your college's quotation
Excludes the optional nasscom assessment where offered. Final pricing on your college's quotation.

DESIGNED BY

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