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

Cloud Fundamentals on AWS and Azure

C-04 · 3 days (configurable 1–5 days) · Informatics · Cloud · Years: 2nd, 3rd, PG

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Catalogue C-04 · version 1 · generated 2026-08-24

OVERVIEW

Hands-on with compute, storage, networking and IAM in live cloud consoles, ending in a deployed application. Delivered on AWS Academy and Microsoft Learn Sandbox, so your students learn on vendor-authored content in live consoles rather than on slides.

HOURS AND CREDIT POSITION

Contact hours: 24 Guided project: 6 Self-study: 0 Notional total: 30

Credit claim: 1

30 notional hours ÷ 30 hours per credit (NSQF track, UGC Micro-credentials Guidelines §5.3.3) = 1 credits.

COURSE OUTCOMES

- CO1. Explain the shared-responsibility model and how cloud pricing is incurred (K2)
- CO2. Deploy and connect to virtual machines in live AWS and Azure consoles (K3)
- CO3. Configure object storage to host and serve a static site (K3)
- CO4. Design a two-tier virtual network with security groups enforcing isolation (K5)
- CO5. Apply least-privilege IAM roles and policies to a working deployment (K3)

COURSE CONTENT — MODULES

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

Module 1 — Cloud from first principles (4h recommended)

Theory: Regions, availability zones, shared responsibility, pricing models

Lab: Console orientation in AWS and Azure sandboxes

Output: Annotated console tour notes

Module 2 — Compute (4h recommended)

Theory: Virtual machines, images, sizing, start/stop economics

Lab: Launch, connect to and resize a VM in each cloud

Output: Running VM with a served page

Module 3 — Storage (4h recommended)

Theory: Object vs block vs file storage, buckets, lifecycle rules

Lab: Host a static site from object storage

Output: Public static site

Module 4 — Networking (4h recommended)

Theory: Virtual networks, subnets, security groups, public and private access

Lab: Build a two-tier network and prove isolation

Output: Network diagram + working rules

Module 5 — Identity and access (4h recommended)

Theory: Users, roles, policies, least privilege, keys and their dangers

Lab: Author least-privilege roles for a scenario

Output: Working IAM policy set

Module 6 — Deploying an application (4h recommended)

Theory: Putting compute, storage, networking and IAM together; capstone

Lab: Capstone: deploy a small application end to end

Output: Deployed application URL

ASSESSMENT SCHEME (100 MARKS)

Continuous lab exercises — 40 marks

Capstone project & demonstration — 40 marks

Quiz & viva voce — 20 marks

CO-PO MAPPING

CO1 !' PO1 (strength 2)

The mental model every cloud decision rests on.

CO2 !' PO5 (strength 2)

Real consoles, not slides — vendor tooling mastery.

CO3 !' PO5 (strength 2)

Storage is the first service most careers touch.

CO4 !' PO2 (strength 2)

Network isolation is security analysis made concrete.

CO5 !' PO3 (strength 2)

Least privilege is design under constraint.

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

11,900 per student, incl. GST

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

DESIGNED BY

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