

-  Mapping Old vs New Cloud Computing Syllabus

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New Syllabus (MCS III SEM)	Old Syllabus	Notes
1. Intro to Cloud Computing ``Evolution, Service Models (IaaS, PaaS, SaaS), Deployment Models, Architecture, Trends, Case Studies	1. Introduction ``History (Client-server, P2P, Distributed), Cloud computing, Architecture, Services, Industrial Applications	New focuses more on service & deployment models. Old covers historical computing background.
2. Cloud Infrastructure & Services ``Virtualization, Containerization (Docker, Kubernetes), Storage, Networking, Scalability, Edge/Fog	5. Cloud Computing Technology ``Clients (Thin/Thick), Security basics, Networks, Services (Identity, Integration, Mapping)	New emphasizes modern tech (Docker, Kubernetes, Edge/Fog) . Old focuses on networking & service aspects.
3. Cloud Security & Governance ``IAM, Encryption, Compliance, Risk Management, Governance Frameworks	4. Cloud Service Administration (SLA, Resource Management, IT Security, Performance, Provisioning) + 10. Cloud Computing Standards (Security, Interoperability, Standards Orgs)	Old combines security with admin + standards . New gives dedicated deep dive on governance + compliance .
4. Cloud Application Development	6. Accessing the Cloud (Platforms, APIs, Browsers)	Old only touches APIs & platforms. New expands to modern dev

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``Cloud-native apps, Microservices, Serverless, CI/CD, Dev Tools, Monitoring		practices (Microservices, CI/CD, Serverless) .
5. Big Data & Analytics in the Cloud ``Data Warehousing, Real-time processing, ML/AI, Visualization	7. Data Management (Security, Scalability, Large Data Processing, Databases, Archival) +8. Information Storage	New syllabus integrates AI/ML, Data Lakes, Visualization . Old focused on data security & storage providers .
6. IoT & Edge Computing ``IoT devices, Integration, Edge Analytics, Case Studies	Not present	Completely new addition in new syllabus.
7. Serverless Computing & FaaS ``AWS Lambda, Azure Functions, Event-driven, Orchestration	Partly in 4 & 6 (Service Management, APIs)	Old barely touched. New syllabus has a dedicated modern module .
8. Cloud Economics & Cost Management ``Cost models, TCO, Billing, ROI, Optimization	3. Inside Cloud Computing (Strategy, Governance, IT Cost Mgmt) +9. Private & Hybrid Clouds (Economics of private clouds)	Old syllabus focused on cost & governance basics . New adds modern FinOps concepts .
9. Cloud Standards & Interoperability ``APIs, Data Portability, Vendor lock-in, Compliance	10. Cloud Computing Standards (Interoperability, Standards Orgs like NIST, DMTF, CSA)	Both cover standards. New is more practical (API, portability) while Old is org-focused .

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10. Case Studies in Cloud Computing ``Real-world deployments, challenges, lessons learned	Scattered in 1, 9, 10	Both use case studies, but new syllabus gives it adedicated final module .