

# Mapping Old vs New Cloud Computing Syllabus

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

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

**New Syllabus  
(MCS III SEM)****Old Syllabus****Notes****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  
**a dedicated final  
module .**