

## SEMSETER-II

GANPAT UNIVERSITY									
FACULTY OF MANAGEMENT STUDIES									
Program	MBA		Branch/Spec.		Tech MBA (MBA Technology Management)				
Semester	II				Version	1.0.0.0			
Effective from Academic Year			2025-26		Effective for the batch Admitted in			January 2025	
Subject code		IIA05CCB		Subject Name		Cloud Computing for Business Transformation			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	4	0	0		4	Theory	60	40	100
Hours	4	0	0		4	Practical			
Objective: To equip future business leaders with the strategic acumen to evaluate, adopt, and govern cloud computing platforms as a core driver of digital transformation, operational agility, and sustainable competitive advantage.									
Course Outcome: CO 1: The students will be able to articulate the strategic business value of cloud computing and differentiate between service and deployment models based on their financial and operational impact. CO 2: The students will be able to analyze how cloud platforms enable business innovation through scalable data analytics, accessible AI/ML, and increased market agility. CO 3: The students will be able to construct a high-level business case for cloud adoption, evaluate major cloud providers on non-technical factors, and identify appropriate migration strategies. CO 4: The students will be able to formulate a high-level governance framework to manage cloud cost (FinOps), performance, security, and compliance risks.									
Theory syllabus									
Unit	Content								Hrs
1	Foundations of Cloud Strategy, The Cloud Imperative for the C-Suite and Board, Service Models: IaaS, PaaS, SaaS with Business Examples, Deployment Models: Public, Private, Hybrid & Multi-Cloud Strategies, The Financial Shift: From Capital Expenditure (CapEx) to Operational Expenditure (OpEx), Cloud Economics: Understanding Pay-as-you-go, Scalability, and Elasticity, Core Concepts: Virtualization, Abstraction, and APIs								12
2	Cloud as the Engine for Business Innovation, Enabling Data-Driven Strategy: Cloud Data Warehouses, Data Lakes, and BI, Democratizing Artificial Intelligence & Machine Learning on Demand, Enhancing Customer Experience (CX) and Personalization at Scale, Accelerating Time-to-Market: DevOps Culture and Continuous Delivery (CI/CD) Concepts, Fostering New Revenue Streams & Cloud-Native Business Models, Case Studies: Analyzing Cloud Adoption by Digital Natives vs. Legacy Incumbents.								12

Note: Version 1.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)

L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work

CE= Continuous Evaluation, SEE= Semester End Examination

3	Cloud Adoption and Migration Strategy, Building a Compelling Business Case: TCO, ROI, and Strategic (Non-Financial) Benefits, The Cloud Vendor Landscape: Comparing AWS, Microsoft Azure, and Google Cloud, Strategic Vendor Selection Criteria: Ecosystem, Support, Pricing, and Partner Network, The Migration Playbook: A Manager's Guide to the "6 R's" of Migration, Developing a Phased Cloud Adoption Roadmap, Leading Organizational Change: Managing Skills Gaps and Fostering a Cloud-First Culture.	12
4	Cloud Governance and Financial Operations (FinOps), The Principles of Effective Cloud Governance, Introduction to FinOps: A Cultural Practice for Managing Cloud Spend, The FinOps Lifecycle: Inform (Tagging, Showback), Optimize (Rightsizing), Operate, Cost Allocation, Budgeting, and Forecasting in the Cloud, Role and Function of a Cloud Center of Excellence (CCoE), Strategic Vendor Management, SLA Negotiation, and Mitigating Vendor Lock-in.	12
5	Advanced Cloud Risk Management & Future Strategy, Security Strategy: The Shared Responsibility Model in Practice, Navigating Global Compliance, Data Sovereignty, and Data Residency, Building Resilience: Business Continuity & Disaster Recovery (BCDR) with Cloud, Sustainability and the Cloud: Achieving Green IT and ESG Goals, Future Frontiers: Strategic Implications of Edge Computing, IoT, and Serverless, Preparing for the Next Wave: Quantum Computing, Web3, and the Metaverse.	12

#### Practical content

#### Reference Books

1.	Hohpe, Gregor. Cloud Strategy: A Decision-Based Approach to Design, Adopt, and Manage a Cloud-Forward State. Addison-Wesley Professional, 2020.
2.	Storment, J.R., and Fuller, Mike. Cloud FinOps: Collaborative, Real-Time Cloud Financial Management. O'Reilly Media, 2021.
3.	Linthicum, David S. Insider's Guide to Cloud Computing: Getting from Strategy to Implementation. Addison-Wesley Professional, 2022.
4.	Weinman, Joe. Clouconomics: The Business Value of Cloud Computing. Wiley, 2012.
5.	Kavis, Michael. Architecting the Cloud: Design Decisions for Cloud Computing Service Models. Wiley, 2014.
6.	Cross, Mark, and O'Brien, Jonathan. The Cloud-Based Organization: A New Way of Thinking for a New Way of Working. Kogan Page, 2022.
7.	Ross, Jeanne W., et al. Designed for Digital: How to Architect Your Business for Sustained Success. MIT Press, 2019.
8.	Verhoef, Peter C., et al. Digital Transformation: A Road-Map for Billion-Dollar Organizations. Routledge, 2021.
9.	CSA (Cloud Security Alliance). Security Guidance for Critical Areas of Focus in Cloud Computing v4.0. Cloud Security Alliance, 2017.
10.	Carr, Nicholas. The Big Switch: Rewiring the World, from Edison to Google. W. W. Norton & Company, 2008.
11.	Westerman, George, et al. Leading Digital: Turning Technology into Business Transformation. Harvard Business Review Press, 2014.
12.	Moore, Geoffrey A. Zone to Win: Organizing to Compete in an Age of Disruption. Diversion Books, 2015.

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