Program	Master of Business Administration (MBA)	**Semester - 4**
Type of Course	Major	
Prerequisite		
Rationale	-	
Effective From A.Y.	2024-25	

Teaching Scheme (Contact Hours)				Examination Scheme				
Lecture	Tutorial	Lab	Credit	Theory Marks		Practical Marks		Total Marks
				T	T	P	P	
4	-	-	4	50	30	-	-	150

***SEE** - Semester End Examination, **T** - Internal Theory, **P** - Internal Practical*

Course Content

T - Teaching Hours | **W** - Weightage

Sr.	Topics	T	W
1	**Module I**	**15**	**25**
	Cloud Computing Foundation: • Introduction to Cloud Computing- Basics, History, Characteristics • Move to Cloud Computing- Advantages/ Disadvantages • Technologies in Cloud Computing, Migrating into Cloud, SLA, Challenges in Cloud Computing • Types of Cloud; Working of Cloud Computing- Trends, Cloud Service Models **Cloud Computing Architecture:** • Cloud Computing Technology – Lifecycle, Reference Model for Cloud Computing, Industry Standards • Cloud Architecture • Cloud Modelling and Design, Cloud Ecosystem, Cloud Governance- - Monitoring Business Processes, IT Cost Management **Business Values of Cloud:** • Business Case for implementing a Cloud		
2	**Module II**	**15**	**25**
	Virtualization: • Foundation, Types, Architecture And Software, • Benefits And Challenges, Virtualization In Grid and Cloud **Data Storage And Cloud Computing:** • Enterprise Data Storage, Data Storage Management, • File System, Cloud Data Stores, Grids For Data Storage **Cloud Computing Services:** • Web Based Application, Web Based Services, Infrastructure Services, On Demand Computing		
3	**Module III**	**15**	**25**
	Cloud Computing and Security: • Risk in Cloud Computing • Data Security in Cloud Computing • Cloud Security Services **SOA And Cloud Computing:** • SOA Foundation • Business Process Management and Cloud		
4	**Module IV**	**15**	**25**

Course Content

T - Teaching Hours | **W** - Weightage

Sr.	Topics	T	W
	Cloud Computing Tools: • Tools and Technologies; Cloud Mashups • Apache Hadoop • Cloud Tools **Cloud Application:** • Moving Application To Cloud • Microsoft Cloud Services • Google Cloud Application • Amazon Cloud Services • Other Cloud Applications **Future Cloud:** • Future Trends • Mobile Cloud • Multimedia Cloud • Energy Aware Cloud Computing • Jungle Cloud		
	Total	**60**	**100**

Suggested Distribution Of Theory Marks Using Bloom's Taxonomy

Level	Understanding	Application	Analyze	Evaluate
Weightage	25	25	25	25

NOTE : This specification table shall be treated as a general guideline for the students and the teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes

At the end of this course, students will be able to:	
CO1	Analyse how business processes, and workflows can be managed using cloud computing.
CO2	Critically evaluate the different managerial challenges related to implementation, migration, vendor and end user management.
CO3	Appraise global development in cloud computing technologies and data science.
CO4	Prioritize ethical consideration associated with data management and analysis

CO PO Mapping

CO	CO - 1	CO - 2	CO - 3	CO - 4
PO - 1	3	1	1	2
PO - 2	2	2	2	0
PO - 3	3	3	0	0
PO - 4	0	3	1	2
PO - 5	0	0	3	0

Reference Books

1.	**Cloud computing a practical approach (TextBook)** By Anthony T.Velte , Toby J. Velte Robert Elsenpeter | TATA McGraw- Hill
2.	**Mastering Cloud Computing** By Rajkumar Buyya, C. Vecchiola & S. Thamarai Selvi | McGRAW Hill Publication
3.	**Cloud Computing (Principles and Paradigms)** By Rajkumar Buyya, James Broberg, Andrzej Goscinski | John Wiley & Sons