



# GUJARAT TECHNOLOGICAL UNIVERSITY

Syllabus for Master of Business Administration, 3<sup>rd</sup> Semester

Subject Class: Elective

Subject Code: 1539614

With effective  
from academic  
year 2020-21

## 1. Learning Outcomes:

Learning Outcome Component	Learning Outcome (Student will be able to)
Business Environment and Domain Knowledge (BEDK)	<i>Analyse</i> how business processes, and workflows can be managed using cloud computing.
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	<i>Critically evaluate</i> the different managerial challenges related to implementation, migration, vendor and end user management.
Global Exposure and Cross-Cultural Understanding (GECCU)	<i>Appraise</i> global development in cloud computing technologies and data science.
Social Responsiveness and Ethics (SRE)	<i>Prioritize</i> ethical consideration associated with data management and analysis.
Effective Communication (EC)	<i>Create</i> reports to analyse the performance of cloud computing.
Leadership and Teamwork (LT)	<i>Exercise</i> and managing leadership position by upgrading cloud computing technology.

## LO – PO Mapping: Correlation Levels:

1 = Slight (Low); 2 = Moderate (Medium); 3 = Substantial (High), “-“= no correlation

Sub. Code: 4549252	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1: <i>Analyse</i> how business processes, and workflows can be managed using cloud computing.	3	2	3	-	-	-	-	-	1
LO2: <i>Critically evaluate</i> the different managerial challenges related to implementation, migration, vendor and end user management.	1	2	3	3	-	3	-	-	-
LO3: <i>Appraise</i> global development in cloud computing technologies and data science.	1	2	-	1	3	2	-	-	1
LO4: <i>Prioritize</i> ethical consideration associated with data management and analysis.	2	-	-	2	-	-	3	-	2
LO5: <i>Create</i> reports to analyse the performance of cloud computing.	-	-	3	2	-	-	1	-	3
LO6: <i>Exercise</i> and managing leadership position by upgrading cloud computing technology.	-	-	-	2	-	3	-	-	1

2. **Course Duration:** The course duration is of **40 sessions of 60 minutes each.**

## 3. Course Contents:



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Module No:	Contents	No. of Sessions	70 Marks (External Evaluation)
I	<p><b>Cloud Computing Foundation:</b> 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</p> <p><b>Cloud Computing Architecture:</b> 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</p> <p><b>Business Values of Cloud</b></p> <p><b>Business Case for implementing a Cloud</b></p>	10	18
II	<p><b>Virtualization:</b> Foundation, Types, Architecture And Software, Benefits And Challenges, Virtualization In Grid and Cloud</p> <p><b>Data Storage And Cloud Computing:</b> Enterprise Data Storage, Data Storage Management, File System, Cloud Data Stores, Grids For Data Storage</p> <p><b>Cloud Computing Services:</b> Web Based Application, Web Based Services, Infrastructure Services, On Demand Computing</p>	10	18
III	<p><b>Cloud Computing and Security:</b> Risk in Cloud Computing; Data Security in Cloud Computing; Cloud Security Services</p> <p><b>SOA And Cloud Computing:</b> SOA Foundation; Business Process Management and Cloud</p>	10	17
IV	<p><b>Cloud Computing Tools:</b> Tools and Technologies; Cloud Mashups; Apache Hadoop; Cloud Tools</p> <p><b>Cloud Application:</b> Moving Application To Cloud; Microsoft Cloud Services; Google Cloud Application; Amazon Cloud Services; Other Cloud Applications</p> <p><b>Future Cloud:</b> Future Trends; Mobile Cloud; Multimedia Cloud; Energy Aware Cloud Computing; Jungle Cloud</p>	10	17
V	<p><b>Practical</b></p> <ul style="list-style-type: none"> <li>• Assignment related to cloud computing may be given in groups or individual</li> <li>• Hand-on/ lab experiment assign to students</li> <li>• Relevant case studies should be discussed in class room.</li> </ul>		

#### 4. Pedagogy:

- ICT enabled Classroom teaching



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- Case study
- Practical / live assignment
- Interactive class room discussions

## 5. Evaluation:

Students shall be evaluated on the following components:

	<b>Internal Evaluation</b>	<b>(Internal Assessment- 50 Marks)</b>
<b>A</b>	• Continuous Evaluation Component	30 marks
	• Class Presence & Participation	10 marks
	• Quiz	10 marks
<b>B</b>	<b>Mid-Semester examination</b>	<b>(Internal Assessment-30 Marks)</b>
<b>C</b>	<b>End –Semester Examination</b>	<b>(External Assessment-70 Marks)</b>

## 6. Reference Books:

<b>Sr. No.</b>	<b>Author</b>	<b>Name of the Book</b>	<b>Publisher</b>	<b>Year of Publication / Edition</b>
1	A Srinivasan , J Suresh	Cloud Computing : A practical approach for learning and implementation	Pearson	Latest Edition
2	Anthony T Velte, Toby J Velte, Robert Elsenpeter	Cloud Computing a practical approach	McGraw-Hill	Latest Edition
3	Rajkumar Buyya, Christian Vecchiola,S.Thamarai Selvi	Mastering Cloud Computing	McGraw-Hill	Latest Edition
4	Michael Miller,	Cloud Computing - Web Based application,	Pearson	Latest Edition
5	Judith Hurwitz , Bloor Robin , Marcia Kaufman & Fern Halper	Cloud Computing for Dummies	Wiley	Latest Edition
6	David S. Linthicum, ,	Cloud Computing and SOA Convergence in Your Enterprise	Addison Wesley	Latest Edition
7	Dan Kusnetzky	Virtualization: A Manager's Guide	O'Reilly	Latest Edition
8	Barrie Sosinsky	Cloud Computing Bible	Wiley	Latest Edition

## 7. List of Journals / Periodicals /Magazines / Newspapers / Web Resources, etc.

1. International journal of cloud computing
2. Journal of cloud computing
3. IEEE cloud computing journals
4. Journal of cloud computing IBIMA
5. International journal of cloud computing and services science
6. International journal of cloud computing and security
7. International journal of cloud computing and data science