

Programme:-BCA (AI&DA) **Semester – VIII** **wef: July 2025**

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LNCT UNIVERSITY, BHOPAL

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Semester – VIII

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Text Books/ Reference Books:-

Name of Authors	Titles of the Book	Edition	Name of the Publisher
Anthony T.Velte, Toby J.	Cloud computing a practical approach	2010	TATA McGraw- Hill, New Delhi
Michael Miller	Cloud Computing: Web-Based Applications That Change the Way You Work and Collaborate	2008	Que Publishing
Buyya, Selvi	” Mastering Cloud Computing “	-	TMH Pub
Kumar Saurabh	“Cloud Computing”	-	Wiley Pub

COURSE OUTCOMES: Students will be able to

CO 1	Explain the core concepts of the cloud computing paradigm.
CO2	Analyze various cloud programming models and apply them to solve problems on the cloud.
CO3	Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing
CO4	Establishes and maintains all other components of the technology stack.
CO5	Expedite updates, improve software security, and maintain an efficient pipeline between development, testing, and deployment.

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Name of Authors	Titles of the Book	Edition	Name of the Publisher
O Brian	Management Information System	10 th Edition	Tata McGraw-Hill
Gordon B.Davis & Margrethe H.Olson	Management Information System	2 nd Edition	Tata McGraw-Hill
Murdick	Information System for Modern Management	3 rd Edition	Prentice Hall (PHI)
Jawadekar	Management Information System	4 th Edition	Tata McGraw-Hill

COURSE OUTCOMES: Students will be able to

CO1	Apply Management Information Systems (MIS) principles.
CO2	Apply foundational knowledge to understand, analyze, and develop effective Information Systems,
CO3	Implement, and organize Information Systems to support organizational planning and control processes.
CO4	Understand Information Technology for diverse business applications.
CO5	Apply advanced concepts in Information Systems, demonstrating proficiency in their strategic use and implementation.

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Name of Paper & Category	Paper Code	Practical				
		Credit		Marks		
Programming Lab in Cloud Computing (Major)	BAI-803	P	J	ESP	CAP	Total
		4	-	70	30	100

Contents (Practical) :-

1. Installation and configuration of Hadoop/Euceliptus etc.
2. Service deployment & Usage over cloud.
3. Management of cloud resources.
4. Using existing cloud characteristics & Service models.
5. Cloud Security Management.
6. Performance evaluation of services over cloud.
7. Write a program for web feed.
8. Study and implementation of Single-Sign-On.
9. User management in cloud.
10. Case study on Amazon EC2/ Microsoft Azure/ Google Cloud Platform.

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Name of Paper & Category	Paper Code	Practical				
		Credit		Marks		
Research Project (Field)	BAI-804	P	J	ESP	CAP	Total
		-	10	200	100	300

Evaluation parameters are:

- Define your research question or objective
- Review existing literature
- Develop a research plan
- Collect and analyze data
- Interpret and present findings
- Discuss implications and limitations
- Write the research report
- Seek feedback and revise
- Present and disseminate your research
- Reflect and learn from the process