

AC – 28/03/2025

Item No. – 7.8 (N) (3a) Sem. IV

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE Vertical 3

Faculty of Commerce & Management

Board of Studies in Bachelor of Management Studies

Second Year Programme in B.Com. (Management Studies)

Semester

IV

Title of Paper

Credits

Basics of Blockchain

2

From the Academic Year

2025-26

Open Elective- Finance

Title of Paper: Basics of Blockchain

Sr. No.	Heading	Particulars
1	Description the course: Including but not limited to:	This course provides a foundational understanding of blockchain technology, covering its core concepts, features, and significance. It explores the evolution, structure, types of networks, and decentralized systems, along with blockchain's functions, benefits, and limitations. Learners will gain insights into blockchain applications across industries, smart contracts, consensus mechanisms, and cryptographic security. The course also examines transparency, immutable records, and the future scope of blockchain, equipping students with essential knowledge to understand and apply blockchain in real-world scenarios.
2	Vertical:	Open Elective
3	Type:	Theory
4	Credit:	2 credits
5	Hours Allotted:	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: <ol style="list-style-type: none">1. To comprehend the key blockchain terms, concepts, and features and understand the evolution, structure, and functions of blockchain technology.2. To apply & demonstrate the working process of blockchain and its applications in various industries.3. To analyse the differentiators between centralized, decentralized, and distributed systems; compare blockchain with banking and Bitcoin.4. To assess the benefits, limitations, and security aspects of blockchain systems.	

8	Course Outcomes: <ol style="list-style-type: none"> 1. Learners will understand the fundamental workings of the blockchain technology. 2. Students will identify and analyse various real-world applications of blockchain technology. 3. Students can critically evaluate the challenges and limitations facing blockchain adoption. 4. They will gain awareness of emerging trends and the future direction of blockchain technology.
9	Modules:
	Module 1: Basics of Blockchain
	<ol style="list-style-type: none"> 1. Meaning and Concept of blockchain, features of blockchain technology, importance of blockchain, Blockchain Related Terms 2. Evolution of Blockchain technology, Elements of a blockchain, Functions, Benefits and limitations of Blockchain 3. Reasons for blockchain technology, Types of blockchain networks, Blockchain decentralization, Centralized v/s Decentralized v/s Distributed systems, 4. Blockchain work process, Use of blockchain in various industries, Blockchain Protocols
	Module 2: Applications and Future of Blockchain
	<ol style="list-style-type: none"> 1. Blockchain Transparency, Transaction process, Applications of blockchain, 2. Distributed ledger technology, Consensus Mechanisms, Immutable records, Smart Contracts, Blockchain nodes 3. Security of blockchain, Project ideas of blockchain, Bank vs. Bitcoin vs. Blockchain 4. Structure of Block and chaining blocks, Role of cryptography, Future scope of blockchain technology
10	Text Books: <ol style="list-style-type: none"> 1. Drescher, D. (2017). <i>Blockchain basics: A non-technical introduction in 25 steps</i>. A press Publication. 2. Warburg, B., Wagner, B., & Serres, T. (2019). <i>Basics of blockchain: A guide for building literacy in the economics, technology, and business of blockchain</i>. Animal Ventures LLC.

	3. Brooks, A. T. (2019). <i>Bitcoin and blockchain basics</i> . Independently published	
11	Reference Books: <ul style="list-style-type: none"> • https://www.ibm.com/think/topics/blockchain • https://www.geeksforgeeks.org/blockchain-technology-introduction/ • https://www.investopedia.com/terms/b/blockchain.asp • https://aws.amazon.com/what-is/blockchain/?aws-products-all.sort-by=item.additionalFields.productNameLowercase&aws-products-all.sort-order=asc • https://www.sirtbhopal.ac.in/blogs/basics-of-blockchain-explained-in-easy-terms • https://www.coursera.org/learn/blockchain-basics 	
12	Internal Continuous Assessment: 40%	External, Semester End Examination 60% Individual Passing in Internal and External Examination
13	Continuous Evaluation through: Quizzes, Class Tests, presentation, project, role play, creative writing, assignment etc. (at least 3)	
14	QUESTION PAPER PATTERN (External and Internal) Paper Pattern 2 Credits (Total 50 Marks) Internal = 20 Marks External = 30 Marks Internal Paper Pattern (20 Marks) <div style="display: flex; justify-content: space-between;"> <div> 1. Project Presentation OR Case Study writing 2. Quiz OR Group discussion 3. Class Test (Mandatory) with objectives </div> <div style="font-size: 3em; line-height: 1;">}</div> <div style="text-align: right;"> any one 10 Marks 10 Marks </div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 10px;"> <hr style="width: 100px; border: 0.5px solid black;"/> <div style="text-align: right;"> 20Marks </div> </div> External Paper Pattern (30 Marks) Write any TWO questions from the following <div style="display: flex; justify-content: space-between;"> <div> Q1. Answer the following A </div> <div style="text-align: right;"> 15 marks </div> </div>	

	<p>B</p> <p>Q2. Answer the following</p> <p>A</p> <p>B</p> <p>Q3. Answer the following</p> <p>A</p> <p>B</p>	<p>15 Marks</p> <p>15 Marks</p>
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