



**DEPARTMENT OF COMPUTER APPLICATIONS**

**LESSON PLAN & WORK-DONE DIARY FOR AY:2025-26, ODD SEMESTER**

Course with Code: BLOCKCHAIN TECHNOLOGIES– MMCH311D				Faculty: Ms. Umme Hani Sharrif		Semester & Section: III Sem ‘Security’		
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
<b>MODULE-1</b>								
1	23/09/2025	Introduction to Blockchain	PPT					
2	25/09/2025	How Blockchain Works – Basic Structure	PPT					
3	26/09/2025	Components of Blockchain	PPT					
4	26/09/2025	Blockchain vs Bitcoin	PPT					
5	30/09/2025	Public and Private Key Basics	PPT					
6	06/10/2025	Practical Applications of Blockchain	PPT					
7	06/10/2025	Pros of Blockchain	PPT					
8	09/10/2025	Cons of Blockchain	PPT					
9	10/10/2025	Common Myths About Bitcoin	PPT					
		Quiz						



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### MODULE-2

<b>MODULE-2</b>								
10	14/10/2025	Blockchain Architecture	PPT					
11	15/10/2025	Blockchain Versions (1.0 – 4.0)	PPT					
12	17/10/2025	Blockchain Variants	PPT					
13	17/10/2025	Use Cases of Blockchain	PPT					
14	21/10/2025	Real-Life Use Cases of Blockchain	PPT					
15	24/10/2025	Blockchain vs Shared Database	PPT					
16	24/10/2025	Introduction to Cryptocurrencies	PPT					
17	28/10/2025	Types of Cryptocurrencies, Applications, and Ciphers (RC4)	PPT					
		Quiz						



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### MODULE-3

<b>MODULE-3</b>								
18	29/10/2025	Concept of Double Spending	PPT					
19	31/10/2025	Hashing	PPT					
20	31/10/2025	Mining	PPT					
21	05/11/2025	Proof of Work (PoW)	PPT					
22	07/11/2025	Introduction to Merkle Tree	PPT					
23	07/11/2025	Privacy in Blockchain	PPT					
24	11/11/2025	Payment Verification	PPT					
25	12/11/2025	Resolving Conflicts and Creation of Blocks	PPT					
		Quiz						



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MODULE-4								
26	14/11/2025	Introduction to Bitcoin	PPT					
27	14/11/2025	Key Concepts of Bitcoin	PPT					
28	18/11/2025	Merits of Bitcoin	PPT					
29	19/11/2025	Demerits of Bitcoin	PPT					
30	21/11/2025	Fork and SegWit	PPT					
31	21/11/2025	Sending and Receiving Bitcoins	PPT					
32	25/11/2025	Choosing a Bitcoin Wallet	PPT					
33	26/11/2025	Converting Bitcoins to Fiat Currency	PPT					
		Quiz						



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### MODULE-5

<b>MODULE-5</b>								
34	28/11/2025	Introduction to Ethereum	PPT					
35	28/11/2025	Advantages of Ethereum	PPT					
36	02/12/2025	Ethereum vs Bitcoin	PPT					
37	09/12/2025	Smart Contracts – Introduction, Usage & Applications	PPT					
38	10/12/2025	Working Principle, Laws, and Regulations	PPT					
39	12/12/2025	Laws, and Regulations	PPT					
40	12/12/2025	Case Study on Ethereum	PPT					
41	17/12/2025	Revision						
42	19/12/2025	Revision						
43	19/12/2025	Revision						
44	23/12/2025	Revision						
45	24/12/2025	Revision						
		QP Discussion						



## DEPARTMENT OF COMPUTER APPLICATIONS

	Activity	Planned	Actual	Remarks
1	Theory Classes	45		
2	Assignments/Quizzes/Activity/ Self-study	02/02/1		
3	Tutorials/ Extra classes	0		
4	Internal Assessments	2		
5	ICT based Teaching (% of usage in Curriculum)	100%		
<b>Planning</b>			<b>Execution</b>	
<b>Faculty Signature:</b>			<b>Faculty Signature:</b>	
<b>HoD Signature:</b>			<b>HoD Signature:</b>	

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