

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Lesson Plan & Work-done Diary for AY: 2025-26, ODD Semester

Course with Code: Internet of Things – BCS701				Faculty: Roopa B			Semester & Section: 7 th B	
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
MODULE-1								
1		Overview of Syllabus, Course objectives & Outcomes, Evaluation method.	Chalk & Talk	1				
2		Bridge Course: Basics of Networking	PPT, Video	2				
3		Bridge Course: OSI Model	PPT, Video	3				
4		Introduction to Internet of Things: Introduction	PPT	4				
5		Physical design of IoT	PPT	5				
6		Logical Design of IoT – IoT functional blocks, IoT Communication models	PPT	6				
7		Logical Design of IoT - IoT Communication APIs	PPT	7				
8		IoT enabling technologies	PPT	8				
9		IoT Levels & Deployment Templates	PPT	9				
10		Revision & Quiz	PPT, MS Forms/SRS	10				

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MODULE-2								
1		IoT and M2M: Introduction to M2M, Difference between IoT and M2M	PPT	1				
2		SDN for IoT	PPT	2				
3		NFV for IoT	PPT	3				
4		IoT System Management with NETCONF-YANG: Need for IoT Systems Management, Simple Network Management Protocol (SNMP)	PPT	4				
5		Network operator requirements	PPT	5				
6		NETCONF	PPT	6				
7		YANG	PPT	7				
8		IoT Systems Management with NETCONF-YANG	PPT	8				
9		Revision & Quiz	PPT, MS Forms/SRS	9				

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MODULE-3								
1		IoT Platforms Design Methodology: Introduction, IoT Design Methodology – Step 1 to 3	PPT	1				
2		IoT Design Methodology - Step 4 to 10	PPT	2				
3		Case Study on IoT System for Weather Monitoring	PPT	3				
4		IoT Systems - Logical Design using Python: Introduction, Installing Python	PPT	4				
5		Python Data Types and Data structures, Control flow	PPT	5				
6		Functions, Modules, Packages	PPT	6				
7		File Handling, Operations	PPT	7				
8		Classes	PPT	8				
9		Python Packages of Interest for IoT	PPT	9				
10		Revision & Quiz	PPT, MS Forms/SRS	10				

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MODULE-4								
1		IoT Physical Devices & End points: What is an IoT Device?	PPT	1				
2		Raspberry Pi, About the Board	PPT	2				
3		Linux on Raspberry Pi, Raspberry Pi interfaces	PPT	3				
4		Programming Raspberry Pi with Python	PPT	4				
5		Case Studies illustrating IoT design – Home Automation	PPT	5				
6		Case Studies illustrating IoT design – Cities.	PPT	6				
7		Case Studies illustrating IoT design – Agriculture.	PPT	7				
8		Revision & Quiz	PPT, MS Forms/SRS	8				

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MODULE-5								
1		Data Analytics for IoT: Introduction	PPT	1				
2		Apache Hadoop	PPT	2				
3		Using Hadoop MapReduce for Batch Data Analytics	PPT	3				
4		Apache Oozie	PPT	4				
5		Apache Spark	PPT	5				
6		Apache Storm	PPT	6				
7		Using Apache Storm for Real-time Data Analysis	PPT	7				
8		Revision & Quiz	PPT, MS-Forms/SRS	8				

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