

**Dr. Ambedkar Institute of Technology,
Bengaluru-560056**

**Department of Computer Science & Engineering Scheme and
Syllabus - NEP – 2024 -2025**

Course Title	INTERNET OF THINGS (IOT)						
Course Code	21CST702						
Category	Professional Core Course (PCC)						
Scheme and Credits	No. of Hours/Week					Total teaching hours	Credits
	L	T	P	SS	Total		
	02	00	00	00	02	26	02
CIE Marks: 50	SEE Marks: 50		Total Max. marks=100		Duration of SEE: 02 Hours		

COURSE OBJECTIVES

1. Understand the building blocks of IOT , its characteristics and Application area.
2. Realize the difference between M2M and IOT
3. Explore the architecture, components and working of IOT with the help of Microcontroller.
4. Elaborate the need for Data Analytics mechanism & tools in IoT.

UNIT-1	
CHAPTER 1: Introduction & Concepts	05 Hours
Introduction to Internet of Things, Definitions and Characteristics of IoT, Physical Design of IoT, Logical Design of IoT, IoT Enabling Technologies, IoT levels and Development Templates.	
UNIT-2	
CHAPTER 2: IoT and M2M Communication	05 Hours
Introduction, M2M, Difference between IoT and M2M, SDN & NFV for IoT.	
CHAPTER 3: IoT Platform Design Methodology	
Introduction, IoT Design Methodology, Case Study: Weather Monitoring.	
UNIT-3	
CHAPTER 4: Domain Specific IOTs	05 Hours
Home Automation, Cities, Environment, Energy, Retail, Logistics, Agriculture, Industry, Health & Life Style - Applications and Case-studies	
UNIT-4	

