

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****Course Code / Name :U14CSE14/Internet of Things****Class (Year / Programme / Department / Section): IV/BE/CSE/A&B****LESSON PLAN**

<b>UNIT -1 INTRODUCTION</b>				
<b>Session No</b>	<b>Topic</b>	<b>Duration in Minutes</b>	<b>Teaching Aid</b>	<b>Book Referred</b>
1	Definitions and Functional Requirements	45	PPT	R1
2	Motivation – Architecture	45	PPT	R1
3	Web 3.0 View of IoT	45	PPT	R1
4	Ubiquitous IoT Applications	45	PPT	R1
5	Four Pillars of IoT– DNA of IoT	45	PPT	R1
6	The Toolkit Approach for End-user Participation in the Internet of Things	45	PPT	R1
7	Middleware for IoT: Overview	45	PPT	R1
8	Communication middleware for IoT	45	PPT	R1
9	IoT Information Security	45	PPT	R1
<b>UNIT-2 IOT PROTOCOLS</b>				
1	Protocol Standardization for IoT– Efforts	45	PPT	R1
2	M2M and WSN Protocols	45	PPT	R1
3	SCADA and RFID Protocols	45	PPT	R1
4	Issues with IoT Standardization	45	PPT	R1
5	Unified Data Standards	45	PPT	R1
6	Protocols – IEEE 802.15.4	45	PPT	R1
7	BACNet Protocol – Modbus – KNX	45	PPT	R1
8	Zigbee Architecture – Network layer	45	PPT	R1
9	APS layer – Security.	45	PPT	R1
<b>UNIT -3 WEB OF THINGS</b>				
1	Web of Things versus Internet of Things	45	PPT	R1
2	Two Pillars of the Web – Architecture Standardization for WoT	45	PPT	R1
3	Platform Middleware for WoT	45	PPT	R1
4	Unified Multitier WoT Architecture	45	PPT	R1
5	WoT Portals and Business Intelligence	45	PPT	R1
6	Cloud of Things: Grid/SOA and Cloud Computing	45	PPT	R1
7	Cloud Middleware – Cloud Standards	45	PPT	R1
8	Cloud Providers and Systems	45	PPT	R1
9	Mobile Cloud Computing	45	PPT	R1
10	The Cloud of Things Architecture	45	PPT	R1
<b>UNIT -4 INTEGRATED SOLUTIONS</b>				
1	Integrated Billing Solutions in the Internet of Things Business Models for the Internet of Things	45	BB	R1
2	Network Dynamics: Population Models	45	BB	R1
3	Information Cascades	45	PPT	R1
4	Network Effects	45	PPT	R1
5	Network Dynamics: Structural Models	45	PPT	R1
6	Cascading Behavior in Networks	45	PPT	R1

7	The Small-World Phenomenon	45	BB	R1
8	Applications of Integrated Solutions	45	PPT	R1
9	Business Models for the Internet of Things	45	PPT	R1
<b>UNIT -5 APPLICATIONS</b>				
1	The Role of the Internet of Things	45	PPT	R1
2	Increased Autonomy and Agility in Collaborative Production Environments	45	PPT	R1
3	Resource Management in the Internet of Things: Clustering	45	PPT	R1
4	Synchronization and Software Agents	45	PPT	R1
5	Applications	45	PPT	R1
6	Smart Grid	45	PPT	R1
7	Electrical Vehicle Charging	45	PPT	R1
8	Effects of IoT	45	PPT	R1
9	IoT World	45	PPT	R2