BALASORE SCHOOL OF ENGINEERING, BALASORE

LESSION PLAN FOR 6THSEMESTER, SESSION:-2023-24(S-23)

faculty name - S. Nayak .

BRANCH:- COMP. SC. & ENGG.					SEMESTER:-6th	
SUBJECT:- INTERNET OF THINGS					THEORY:-TH-02	
NAME OF TEACHER:- SUVENDU NAYAK						
SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	FEB-2023(6)		22/02/23	1. Introduction to Internet of Things 1.1 Introduction 1.2 Characteristics of IoT	6	6
			23/02/23	1.3 Applications of IoT cont..		
			24/02/23	Applications of IoT		
			25/02/23	1.4 IoT Categories		
			27/02/23	1.5 IoT Enablers and connectivity layers		
			28/02/23	1.6 Baseline Technologies 1.7 Sensor content.......		

SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
			01/03/23	1.8 Actuator 1.9IoT components and implementation		
			02/03/23	1.10 Challenges for IoT		
			03/03/23	2. **IOT Networking** 2.1 Terminologies 2.2 Gateway Prefix allotment		
			04/03/23	2.3 Impact of mobility on Addressing 2.4 Multihoming		
			06/03/23	2.5 Deviation from regular Web 2.6 IoT identification and Data protocols		
			09/03/23	3. **Connectivity Technologies** 3.1 Introduction 3.2 IEEE 802.15.4		
			10/03/23	3.3 ZigBee, 6LoWPAN		
			11/03/23	3.4 RFID, HART and wireless HART		
			13/03/23	3.5 NFC, Bluetooth, Z wave, ISA100.11.A		
			14/03/23	4. **Wireless Sensor Networks** 4.1 Introduction 4.2 Components of a sensor node		
	MAR-2022(23)		15/03/23	4.3 Modes of Detection	23	23
			16/03/23	4.4 Challenges in WSN 4.5 Sensor Web		
			17/03/23	4.6 Cooperation and Behaviour of Nodes in WSN		
			18/03/23	4.7 Self Management of WSN		
			20/03/23	4.8 Social sensing WSN		
			21/03/23	4.9 Application of WSN		
			22/03/23	4.10 Wireless Multimedia sensor network		
			23/03/23	4.11 Wireless Nanosensor Networks		
			24/03/23	4.12 Underwater acoustic sensor networks		
			25/03/23	4.13 WSN Coverage 4.14 Stationary WSN, Mobile WSN		
			27/03/23	5. **M2M Communication** 5.1 M2M communication		
			28/03/23	5.2 M2M Ecosystem 5.3 M2M service Platform		
			29/03/23	REVISION		

SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	APRIL-2023(15)		03/04/23	5.4 Interoperability		
			04/04/23	6. Programming with Arduino 6.1 Features of Arduino		
			05/04/23	6.2 Components of Arduino Board 6.3 Arduino IDE		
			06/04/23	6.4 Case Studies		
			08/04/23	REVISION		
			10/04/23	REVISION		
			11/04/23	7. Programming with Raspberry Pi 7.1 Architecture and Pin Configuration		
			12/04/23	7.2 Case studies	15	15
			13/04/23	7.3 Implementation of IoT with Raspberry Pi		
			24/04/23	REVISION		
			25/04/23	8. Software defined Networking 8.1 Limitation of current network 8.2 Origin of SDN		
			26/04/23	8.3 SDN Architecture 8.4 Rule Placement, Open flow Protocol		
			27/04/23	8.5 Controller placement 8.6 Security in SDN		
			28/04/23	8.7 Integrating SDN in IoT		
			29/04/23	REVISION		