

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF INFORMATION TECHNOLOGY
LESSON PLAN

Discipline: IT	Semester: 6th	No. Of period available	Name of the Teaching Faculty: Biswabandita Mohanty (PTGF)
Subject: IOT	No. Of Days/per week class allotted: 4 periods per week Mon , Wed ,Thu ,Fri		Semester: From Date: 14-02-2023 To Date: 25-05-2023 No. Of Weeks: 15weeks
Week	Class Date		Topics to be covered
1st	15.02.2023		(SYLLABUS DISCUSSION)
	16.02.2023		1.1 Introduction 1.2 Characteristics of IoT 1.3 Applications of IoT
	17.02.2023		1.4 IoT Categories 1.5 IoT Enablers and connectivity layers
2nd	20.02.2023		1.6 Baseline Technologies
	22.02.2023		1.7 sensor 1.8 Actuator
	23.02.2023		1.9 IoT components and Implementation 1.10 Challenges for IoT
	24.02.2023		2.1 Terminologies 2.2 Gateway Prefix allotment
3rd	27.02.2023		2.3 Impact of mobility on Addressing 2.4 Multihoming
	01.03.2023		2.5 Deviation from regular Web 2.6 IoT Identification and Data protocols
	02.03.2023		Assignment Cum Revision
	03.03.2023		3. Connectivity Technologies 3.1 Introduction 3.2 IEEE 802.15.4
4th	06.03.2023		3.3 ZigBee, 6LoWPAN 3.4 RFID, HART and wireless HAR
	09.03.2023		3.5 NFC, Bluetooth, Z wave, ISA100.11.A
	10.03.2023		Class Test I
5th	13.03.2023		4. Wireless Sensor Networks 4.1 Introduction 4.2 Components of a sensor node
	15.03.2023		4.3 Modes of Detection 4.4 Challenges in WSN
	16.03.2023		4.5 Sensor Web 4.6 Cooperation and Behaviour of Nodes in WSN 4.7 Self Management of WSN
	17.03.2023		4.8 Social sensing WSN 4.9 Application of WSN

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6th	20.03.2023)	4.10 Wireless Multimedia sensor network 4.11 Wireless Nanosensor Networks
	22.03.2023)	4.12 Underwater acoustic sensor networks 4.13 WSN Coverage 4.14 Stationary WSN, Mobile WSN
	23.03.2023	\	Assignment Cum Revision
	24.03.2022	\	5. M2M Communication 5.1 M2M communication 5.2 M2M Ecosystem
7th	27.03.2023	\	5.3 M2M service Platform
	29.03.2023	\	5.4 Interoperability
	31.03.2023	\	Assignment Cum Revision
8th	03.04.2023	\	6. Programming with Arduino 6.1 Features of Arduino 6.2 Components of Arduino Board
	05.04.2023	\	6.3 Arduino IDE
	06.04.2023	\	6.4 Case Studies
9th	10.04.2023	\	7. Programming with Raspberry Pi 7.1 Architecture and Pin Configuration
	12.04.2023	\	7.2 Case studies 7.3 Implementation of IoT with Raspberry P
	13.04.2023	\	Class Test 2
10th	17.04.2023	\	8. Software defined Networking 8.1 Limitation of current network 8.2 Origin of SDN
	19.04.2023	\	8.3 SDN Architecture 8.4 Rule Placement, Open flow Protoco
	20.04.2023	\	8.5 Controller placement
	21.04.2023	\	8.6 Security in SDN 8.7 Integrating SDN In IoT 9. Smart Homes 9.1 Origin and example of Smart Home Technologies 9.2 Smart Home Implementation
11th	24.04.2023	\	9.3 Home Area Networks(HAN) 9.4 Smart Home benefits and issues
	26.04.2023		Internal Test
	27.04.2023		Internal Test
	28.04.2023		Internal Test

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12th	01.05.2023		10. Smart Cities 10.1 Characteristics of Smart Cities
	03.05.2023		10.2 Smart city Frameworks
	04.05.2023		10.3 Challenges in Smart cities
13th	08.05.2023		10.4 Data Fusion
	10.05.2023		10.5 Smart Parking
	11.05.2023		10.6 Energy Management in Smart cities
	12.05.2023		Assignment Cum Revision
			11. Industrial IoT 11.1 IIoT requirements
14th	15.05.2023		11.2 Design considerations
	17.05.2023		11.3 Applications of IIoT 11.4 Benefits of IIoT
	18.05.2023		11.5 Challenges of IIoT
15th	22.05.2023		Assignment Cum Revision
	24.05.2023		Previous year question discussion
	25.05.2022		Doubt clearing class