SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY
LESSON PLAN (SUMMER 2024)

Discipline- Computer Science & Engineering	Semester-6th	Faculty Name- Mitali Madhusmita Pradhan
Subject- Internet Of Things	No of days/ per week class alloted-4	Semester from date- 16/01/2024 to 26/04/2024 No of weeks-17

Week	Class day	Theory Topics
JAN 3RD	16-01-24	Introduction to Internet of Things,Characteristics of IoT,Applications of IoT
	17-01-24	IoT Categories,IoT Enablers and connectivity layers,Baseline Technologies
	18-01-24	Sensor,Actuator
	19-01-24	IoT components and implementation,Challenges for IoT
JAN 4TH	23-01-24	Doubt clearing of unit-1
	24-01-24	IOT Networking,Terminologies,Gateway Prefix allotment,Impact of mobility on Addressing
	25-01-24	Multihoming,Deviation from regular Web
JAN 5TH	30-01-24	IoT identification and Data protocols
	31-01-24	Doubt clearing of unit-2
FEB 1ST	01-02-24	Introduction Connectivity Technologies,IEEE 802.15.4,ZigBee, 6LoWPAN
	02-02-24	RFID, HART and wireless HART,NFC, Bluetooth, Z wave, ISA100.11.A
FEB 2ND	06-02-24	Introduction Wireless Sensor Networks,Components of a sensor node
	07-02-24	Modes of Detection,Challenges in WSN,Sensor Web
	08-02-24	Cooperation and Behaviour of Nodes in WSN
	09-02-24	Self Management of WSN,Social sensing WSN,Application of WSN
FEB 3RD	13-02-24	Wireless Multimedia sensor network
	15-02-24	Wireless Nanosensor Networks
	16-02-24	Underwater acoustic sensor networks,WSN Coverage
FEB 4TH	20-02-24	Stationary WSN, Mobile WSN
	21-02-24	Doubt clearing of unit-3 and unit-4
	22-02-24	class Test
	23-02-24	M2M communication,M2M Ecosystem
FEB 5TH	27-02-24	M2M service Platform,Interoperability
	28-02-24	Programming with Arduino
	29-02-24	Features of Arduino,Components of Arduino Board
MAR 1ST	01-03-24	Arduino IDE,Case Studies
MAR 2ND	05-03-24	Doubt clearing unit-5 and unit-6
	06-03-24	Programming with Raspberry Pi
	07-03-24	Architecture and Pin Configuration,Case studies
MAR 3RD	12-03-24	Implementation of IoT with Raspberry Pi
	13-03-24	Doubt clearing unit-7
	14-03-24	Software defined Networking,Limitation of current network
	15-03-24	Origin of SDN,SDN Architecture

	19-03-24	Rule Placement, Open flow Protocol
	15-03-24	class Test
MAR 4TH	20-03-24	Controller placement
	21-03-24	Security in SDN
	22-03-24	Integrating SDN in IoT
	26-03-24	Smart Homes,Origin and example of Smart Home Technologies
MAR 5TH	27-03-24	Smart Home Implementation,Home Area Networks(HAN)
	28-03-24	Smart Home benefits and issues
	29-03-24	Smart Cities
	02-04-24	Characteristics of Smart Cities
APR 1ST	03-04-24	Smart city Frameworks
	04-04-24	Challenges in Smart cities
	05-04-24	Data Fusion
	09-04-24	Smart Parking
APR 2ND	10-04-24	Energy Management in Smart cities
	11-04-24	Industrial IoT
APR 3D	16-04-24	IIoT requirements
	19-04-24	Design considerations
	23-04-24	Applications of IIoT
APR 4TH	25-04-24	Benefits of IIoT
	26-04-24	Challenges of IIoT

Total no. of Classes:	54
No. of Theory Classes:	44
No. of Tutorial Classes:	5
No. of Digital Classes:	3
No. of PPT Classes:	2

14/01/24

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Computer Science & Engineering
S.V.S.E.T., Madanpur

DEAN (ACADEMICS) 14/01/24

DEAN ACADEMICS
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PRINCIPAL

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