




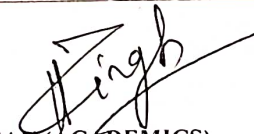
SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY
LESSON PLAN (SUMMER 2023)

Discipline- Computer Science & Engineering	Semester-6th	Faculty Name- Dillip Kumar Lenka
Subject- Internet Of Things	No of days/ per week class allotted-4	Semester from date- 14/02/2023 to 23/05/2023 No of weeks-16
Week	Class day	Theory Topics
FEB 3RD	14-02-23	Introduction to Internet of Things, Characteristics of IoT, Applications of IoT
	15-02-23	IoT Categories, IoT Enablers and connectivity layers, Baseline Technologies
	16-02-23	Sensor, Actuator
	17-02-23	IoT components and implementation, Challenges for IoT
FEB 4TH	20-02-23	Doubt clearing of unit-1
	21-02-23	IOT Networking, Terminologies, Gateway Prefix allotment, Impact of mobility on Addressing
	22-02-23	Multihoming, Deviation from regular Web
	23-02-23	IoT identification and Data protocols
	24-02-23	Doubt clearing of unit-2
FEB 5TH	28-02-23	Introduction Connectivity Technologies, IEEE 802.15.4, ZigBee, 6LoWPAN
MAR 1ST	01-03-23	RFID, HART and wireless HART, NFC, Bluetooth, Z wave, ISA100.11.A
	02-03-23	Introduction Wireless Sensor Networks, Components of a sensor node
	03-03-23	Modes of Detection, Challenges in WSN, Sensor Web
MAR 2ND	07-03-23	Cooperation and Behaviour of Nodes in WSN
	09-03-23	Self Management of WSN, Social sensing WSN, Application of WSN
	10-03-23	Wireless Multimedia sensor network
MAR 3RD	14-03-23	Wireless Nanosensor Networks
	15-03-23	Underwater acoustic sensor networks, WSN Coverage
	16-03-23	Stationary WSN, Mobile WSN
	17-03-23	Doubt clearing of unit-3 and unit-4
MAR 4TH	21-03-23	class Test
	22-03-23	M2M communication, M2M Ecosystem
	23-03-23	M2M service Platform, Interoperability
	24-03-23	Programming with Arduino
MAR 5TH	28-03-23	Features of Arduino, Components of Arduino Board
	29-03-23	Arduino IDE, Case Studies
	31-03-23	Doubt clearing unit-5 and unit-6
APR 2ND	04-04-23	Programming with Raspberry Pi
	05-04-23	Architecture and Pin Configuration, Case studies
	06-04-23	Implementation of IoT with Raspberry Pi
APR 3RD	11-04-23	Doubt clearing unit-7
	12-04-23	Software defined Networking, Limitation of current network
	13-04-23	Origin of SDN, SDN Architecture
APR 4TH	18-04-23	Rule Placement, Open flow Protocol
	19-04-23	class Test
	20-04-23	Controller placement
	21-04-23	Security in SDN

APR 5TH	25-04-23	Integrating SDN in IoT
	26-04-23	Smart Homes, Origin and example of Smart Home Technologies
	27-04-23	Smart Home Implementation, Home Area Networks (HAN)
	28-04-23	Smart Home benefits and issues
MAY 1ST	02-05-23	Smart Cities
	03-05-23	Characteristics of Smart Cities
	04-05-23	Smart city Frameworks
	04-05-23	Challenges in Smart cities
	05-05-23	Data Fusion
MAY 2ND	09-05-23	Smart Parking
	10-05-23	Energy Management in Smart cities
	11-05-23	Industrial IoT
	12-05-23	IIoT requirements
MAY 3RD	16-05-23	Design considerations
	17-05-23	Applications of IIoT
	18-05-23	Benefits of IIoT
MAY 4TH	23-05-23	Challenges of IIoT

Total no. of Classes:	53	
No. of Theory Classes:	43	
No. of Tutorial Classes:	5	
No. of Digital Classes:	3	
No. of PPT Classes:	2	


H.O.D.


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