Department : CSE	Semester: 6TH	Lesson Plan of Summer 2024 Name of the Teaching Faculty:
Subject:		SOMYASHREE SAMAL
CRYPTOGRAPHY & NETWORK	No. of Days/per week class allotted:	Semester from: 16TH JANUARY 2024
		No of Weeks : 15 Weeks
SECURITY	4Period/week	Topic to be covered:
WEEK	DAYS	TOPIC
	1st	The need for Security
1st Week	2nd	Continue
	3rd	Security Approach
	4th	Continue
	1st	Principles of Security
2nd Week	2nd	Continue
Ziid Week	3rd	Types of Attacks
	4th	Continue
	1st	Cryptography Concepts Plain Text & Cipher Text
3rd Week	2nd	Substitution techniques
	3rd	Continue
	4th	Transposition Techniques
	1st	Encryption & Decryption
4th Week	2nd	Continue
4th week	3rd	Symmetric & Asymmetric Key Cryptography
	4th	Continue
	1st	Symmetric Key Algorithm types
5th Week	2nd	Continue
oth week	3rd	Overview of Symmetric Key Cryptography
	4th	Continue
	1st	Data Encryption Standards
61 11 1	2nd	Continue
6th Week	3rd	The RSA Algorithm
	4th	Continue
	1st	Symmetric & Asymmetric Key Cryptography
Gd. Week	2nd	Continue
7th Week	3rd	Digital Signature
	4th	Continue
	1st	Digital Certificates

WEEK	DAYS	TOPIC
8th Week	2nd	Continue
	3rd	Continue
	4th	Private Key Management
	1st	PKIX Model
9th Week	2nd	Continue
Jul Week	3rd	Public Key Cryptography Standards
	4th	Continue
	1st	Basic Concept
10th Week	2nd	Secure Socket Layer
Tour week	3rd	Continue
	4th	Transport Layer Security
	1st	Secure Hyper Text transfer Protocol (SHTTP)
11th Week	2nd	Time Stamping Protocol (TSP)
11th Week	3rd	Secure Electronic Transaction (SET)
	4th	Continue
	1st	Authentication basics
12th Week	2nd	Continue
12di Week	3rd	Password
	4th	Continue
	1st	Authentication Tokens
13th Week	2nd	Certificate Based Authentication
75th Wook	3rd	Continue
	4th	Biometric Authentication
	1st	Revision
14th Week	2nd	Brief Introduction of TCP/IP
14th Week	3rd	Continue
	4th	Firewall
	1st	Continue
15th Week	2nd	IP Security
15til WEEK	3rd	Virtual private Network (VPN)
	4th	Revision & Semester Question Answer Discussion

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Department : CSE	Semester: 6TH	Name of the Teaching Faculty : LOPAMUDRA SINGH
Subject : INTERNET OF THINGS	No. of Days/per	Semester from: 16TH JANUARY 2024
	week class allotted :	No of Weeks : 15 Weeks
	4Period/week	Topic to be covered:
WEEK	DAYS	TOPIC
	1st	Introduction of IOT, Character of IOT
1st Week	2nd	Application of IOT, IOT Categories
	3rd	Baseline Technology, Sensor
	4th	Actuators, IOT Components & implementation
	1st	Challenges of IOT
2nd Week	2nd	Networking Terminology, Prefix Allotment
	3rd	Mobility on adressing, Multihomong
	4th	Deviation of regular web
	1st	IOT Identification & Data Protocol
3rd Week	2nd	Technology of Connectivity
ord Week	3rd	IEEE 802.15.4, Zigbee, Doubt Class
	4th	6 LOWPAN, RFID, HART & Wireless HART
	1st	NFC, Bluetooth, Z, Wave, ISA 100.11.A
4th Week	2nd	Wireless Sensors & Components
THI WEEK	3rd	Modes of Detection of Sensors
	4th	Challenges in WSN, Sensor Web
		Co-operation & Behaviour of nodes in WSn
5th Week		Self mgmt, Social Sensing WSN
Jul WCCK		Application of WSN
	4th	Wireless Multimedia Sensor Network
		Wireless Nano Sensor Network
6th Week		Under Water Acoustic Sensor Network
our week		WSN Coverage
		Stationary WSN, Mobile WSN
		M2M Communication
7.1		M2M Ecosystem, M2M Platform
7th Week		
		nteroperatibility, Doubt In Communication fundamental of Arduino
		eatures of Arduino

WEEK	DAYS	TOPIC
8th Week	2nd	Components of Arduino Board
THE THE PARTY OF T	3rd	Arduino IDE
	4th	Case Studies
	1st	IOT with Rasbery PI
9th Week	2nd	Limitation of Current Network
9th Week	3rd	Origin SDN
	4th	Discuss of Rasbery PI
	1st	Introduction to Software Defining Network
10th Week	2nd	Limitation of Current Network
10th Week	3rd	Origin of SDN
	4th	Architecture of SDN
	1st	Rule Placement, Open Flow Protocol
11th Week	2nd	Controller Placement
	3rd	Security of SDN
	4th	Integrating SDN in IOT
	1st	Introduction to Smart Home
12th Week	2nd	Origin of Smart Technology
12th Week	3rd	Some Example of Smart Home Technology
	4th	Implimentation of Smart Home
	1st	HAN, Examples of HAM
13th Week	2nd	Smart Home Benefits & Issues
	3rd	Smart Cities Overview
	4th	Characteristics of Smart Cities
	1st	Smart city Framework, Challenges
14th Week	2nd	Data fusion
	3rd	Smart Packing, Energy MGMT in Smart cities
	4th	Introduction to Industrial IOT
	1st	IIOT Requirements
15th Week	2nd	Design Consideration, Application of IIOT
TOTAL TITLER	3rd	Benefits and Challenges of IIOT
	4th	Revision & Semester Question Answer Discussion

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Donoston	Academic	Lesson Plan of Summer 2024
Department : CSE	Semester: 6TH	Name of the Teaching Faculty: SOMYASHREE SAMAL
Subject : CLOUD	No. of Days/per	Semester from: 16TH JANUARY 2024
COMPUTING	week class allotted:	No of Weeks : 15 Weeks
	4Period/week	Topic to be covered:
WEEK	DAYS	TOPIC
	1st	Introduction to Cloud Computing, Historical Development
1st Week	2nd	Vision of Cloud Computing, Characteristics of Cloud Computing
	3rd	Cloud Computing Reference model, CC Environment
	4th	Cloud Service Requirements and Dynamic Infrastructure
	1st	Cloud Adoption, Cloud Application
2nd Week	2nd	Introduction to Cloud Computing Architecture
	3rd	Cloud referce Model, Types of Clouds
	4th	Cloud Interoperatibility and Standards, Use Cases
	1st	Role of Standards in Cloud Computing Environment
3rd Week	2nd	Scalability and Fault Tolerance, Introduction
Jid Week	3rd	Cloud Solutions, Cloud Ecosystem
	4th	Cloud Business process Management
	1st	Portability and Interoperatibility, Cloud Service Management
4th Week	2nd	Cloud Offering, Testing Under Control
THE WEEK		Cloud Service Controls, Virtual Desktop Infrastructure
		Cloud Management and Virtual Technology
		Create a Virtualised Architecture, Data Centre
5th Week		Resilience, Agility, Cisco Data Center Network architecture
Jul WCCK		Storage, Provisioning, Assets Management
		Concept of Map Reduce, Cloud Governnce, Load Balancing
		High availability, Disaster recovery, Virtualisation
6th Week		Network Virtualisation
oth week	3rd D	Desktop and Application Virtualisation
		Desktop as a Service, Local Desktop Virtualisation
		irtualisation Benefits and Server Virtualisation
7th Week		lock and File Level Storage Virtualisation
/ III WEEK		irtual Machine Monitor
	4th In	frastructure Requirements, VLAN and VSAN
		oud Security
8th Week	2nd Cl	oud Security Fundamentals and Services

WEEK OUT WEEK	DAYS	TOPIC
	3rd	Design Principles, Secure Cloud Software Requirements
	4th	Policy Implimentation
	1st	Cloud Computing Security Challenges
9th Week	2nd	Cloud Computing Security Architecture
9th Week	3rd	Architectural Considerations
	4th	Information Classification, Virtual Private Networks
	1st	Virtual Private Networks
10th Week	2nd	Public Key and Encryption Key Management
10th Week	3rd	Digital Certificates, Key Management
	4th	Memory Cards
	1st	Implimenting Identity Management
11th Week	2nd	Controls and Autonomic Systems
THE WOOK	3rd	Market Based management of Clouds
	4th	Cloud Information Security Vendors
	1st	Cloud Federation and Characterisation
12th Week	2nd	Cloud Federation Stack
12th WCCK	3rd	Third Party Cloud Service
	4th	Case Study Third party Cloud Service
	1st	Case Study, Google app Engine
13th Week	2nd	Microsoft a Zone
	3rd	Case Study Hadoop
	4th	Introduction to Hadoop
	1st	Data Sources
14th Week	2nd	Data Storage and Analysis
	3rd	A brief history of Hadoop
	4th	Comparison with other System
	1st	Hadoop at yahoo
15th Week	2nd	Apache Hadoop
	3rd	Doubt Clearing Class
	4th	Revision & Semester Question Answer Discussion

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•	Department : CSE	Semester: 6TH	Name of the Teaching Faculty: JITENDRA PRASAD DASH
	Subject : E-COMMERECE	No. of Days/per week class allotted:	Semester from: 16TH JANUARY 2024
	D.C.D.C.L		No of Weeks : 15 Weeks
	***	4Period/week	Topic to be covered:
	WEEK	DAYS	TOPIC
		1st	Introduction to E-Commerece
	1st Week	2nd	Introduction to E-Commerece
		3rd	What is E-Commerce
		4th	Categories of E-Commerce Application
		1st	E-Business
	2nd Week	2nd	Global Trading Environment Adoption of E-Commerce
		3rd	Adoption of E-Commerce
		4th	Comparission between Traditional and E-Commerce
		1st	Advantages and Disadvantage
	3rd Week	2nd	Business Models of E-Commerce
	Sid Week	3rd	Introduction to Business Models of E-Commerce
		4th	B2C Model
		1st	B2B Model
	4th Week	2nd	Difference Between B2C and B2B Model
	HII WEEK	3rd	C2C Model
		4th	B2B E-Commerce and EDI
		1st	Introduction
	5th Week	2nd	Need for B2B
	Jul Week	3rd	EDI
		4th	Paperless Transaction
		1st	EDI Standards
	6th Week	2nd I	Data Standard s used in EDI
	6th Week	3rd (	Cost of EDI
		4th I	Reasons for Slow Acceptability
		1st E	Electronic Fund Transfer
	741 1	2nd >	KML and its Application
	7th Week	3rd C	Comparison Between HTML and XML
		4th A	Advantage of XML as a Technology
		1st B	Business Application of E-Commerece & Introduction
	8th West	2nd T	rade Cycle, Supply Chain

WEEK	DAYS	TOPIC
	3rd	E-Procurement, Implementing E-Procurement
	4th	Compitative Advantages
	1st	E-Commerece Application in manufacturing Wholesale
9th Week	2nd	E-Commerece Application in Retail and Service Sector
9th week	3rd	E-Commerece Technology, Introduction
	4th	IT Infrastructure
	1st	Internet, Middleware and Intranet
10th Week	2nd	Extranet, VPN, Firewall, Cryptography
roth week	3rd	Digital Signature, Digital Envelope, Certificate
	4th	Contents, Electronic Payment Technology
	1st	Introduction, Electronic Payment Mechanism
11th Week	2nd	Types of Payment System, Risk Associated with E-Payment
IIII Week	3rd	Risk Management Option, Payment Gateway
	4th	Issue of E-payment Technology, Recommendations
	1st	Internet banking, Security Requirement, Secure Socket Layer
12th Week	2nd	Biometrics, Security issues in E-commerce
12th Week	3rd	Introduction, E-commerce Security Issues
	4th	Risk involved in E-commerce
	1st	Protecting E-commerce System
13th Week	2nd	Common E-commerce Security Tools
15th Week	3rd	Client Server Network Security
	4th	Client Server Network Security
	1st	Data and Message Security
14th Week	2nd	Current Trends in Electronic World
14th Week	3rd	E-waste
	4th	E-survillance
	1st	E-governance
15th Week	2nd	E-care
15th Week	3rd	Doubt clearing class
	4th	Revision of all topics with Semester Questions

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