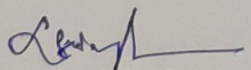
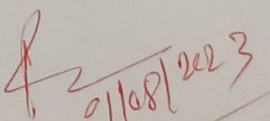


Academic Lesson Plan of Winter 2023

Department : CSE	Semester : 5TH	Name of the Teaching Faculty : LOPAMUDRA SINGH
Subject : ENTERPRENEURSHIP & MANAGEMENT	No. of Days/per week class allotted : 4Period/week	Semester from : 1ST AUGUST 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Concept / Meaning of Entrepreneurship
	2nd	Needs of Entrepreneurship
	3rd	Characterstics and Types of Entrepreneur.
	4th	Barrier in intrepreneurship
2nd Week	1st	Entrepreneurship Vs Manager
	2nd	Forms of Business Ownership
	3rd	Types of Industries with concept of Startups
	4th	Entrepreneurial Supporting Agencies (NSIC,OSIC,SIDBI)
3rd Week	1st	Entrepreneurial Supporting Agencies (NSIC,OSIC,SIDBI)
	2nd	TBI - Technology Incubators
	3rd	Business Planning
	4th	SSI, Ancillary Unit, Tiny Unit
4th Week	1st	SSI, Ancillary Unit, Tiny Unit, Service Sector
	2nd	Time Scheduled Plan, Agencies to be contacted for Project
	3rd	Assessment of Demand and Supply
	4th	Potential Area of Growth
5th Week	1st	Identifying Business Oppertunity
	2nd	Final Project Selection
	3rd	Preliminary Project Report
	4th	Detailed Project Report
6th Week	1st	Techno Economic Feasibility
	2nd	Project Aavailability
	3rd	Concept of Management
	4th	Principle of Management
7th Week	1st	Function of Management
	2nd	Function of Management
	3rd	Level of Management in an Organization
	4th	Production Management , Functions, Activities, Productivity,
8th Week	1st	Inventory Management, Needs
	2nd	Models /Techniques of Inventory Management
	3rd	Concept of Financial Management with Working Capital Concept
	4th	Business Idea about Accounting Terminology

9th Week	1st	Business Idea about Accounting Terminology
	2nd	Concept of Marketing with 4P's of Marketing
	3rd	Concept of HRM with Functions of HRM
	4th	Requirement, Selection, Manpower, Planning
10th Week	1st	Method of Training, Testing and Payment of Wages concept
	2nd	Concepts, Needs and Qualities of a Leader
	3rd	Manager Vs Leader
	4th	Style of Leadership
11th Week	1st	Concept Importance and Factor of Motivation
	2nd	Theories of Motivation
	3rd	Types and Barrier of Communication
	4th	Importance of Communication with Human Relationship Performance
12th Week	1st	Relation of Peers, Supervisor and Sub-ordinates
	2nd	TQM Concept, PPE Concept
	3rd	Accidents and Safety Measures
	4th	Accidents and Safety Measures
13th Week	1st	Concepts of IPR (Intellectual Properties Rights)
	2nd	Concept of Trademarks, Copyright
	3rd	Features of Factories Act, 1948
	4th	Features of Factories Act, 1948
14th Week	1st	Features of Payment of Wages Act, 1936
	2nd	Features of Payment of Wages Act, 1936
	3rd	Concept of IOT
	4th	How IOT Works
15th Week	1st	Component of IOT, Characteristics of IOT
	2nd	Categories of IOT, Application of IOT Smart Cities, Smart Transportation, Smart Home, Smart Health Care
	3rd	Smart Industries and Smart Agriculture
	4th	Smart Energy management System

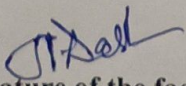

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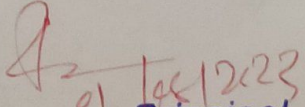

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Academic Lesson Plan of Winter 2023

Department : CSE	Semester : 5TH	Name of the Teaching Faculty : JITENDRA PRASAD DASH
Subject : INTERNET & WEB TECHNOLOGY	No. of Days/per week class allotted : 4Period/week	Semester from : 1ST AUGUST 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Introduction to Internet, Intranet, Network
	2nd	What is IP Address, Domains, Modems
	3rd	CIDR Notations, ISP
	4th	TCP/IP
2nd Week	1st	Connectivity, What are the Medium and Methods of it
	2nd	Methods of Connectivity
	3rd	ISDN, VSAT
	4th	RF Link, Working of Internet
3rd Week	1st	WWW, Protocol, Application Level Protocol
	2nd	Web Browser, URL
	3rd	Hypertext, , Hyperlink, Hypermedia
	4th	Search Engine, Proxy Server
4th Week	1st	CGI, URL
	2nd	Dream Weaver
	3rd	Introduction to Security & types of its
	4th	Authentication, Authorization
5th Week	1st	Firewalls, SSL
	2nd	Encryptions & Decryption
	3rd	Internet Application and Uses
	4th	E-mail, E-mail Protocols
6th Week	1st	Telnet, FTP
	2nd	News Group, Chart Room
	3rd	Internet Relay Chat, Video Conferencing
	4th	E-commerce
7th Week	1st	What are the Websites, Static Websites, Dynamic Websites
	2nd	Web Portals, Social Networking Sites
	3rd	RSS Feed, Blog
	4th	Netiquette, Doubt
	1st	Design a Web Page, Good Web Design

8th Week	2nd	HTML Introduction
	3rd	HTML Tags, Anchor Tags, Table Tags
	4th	HTML Tags, Anchor Tags, Table Tags
9th Week	1st	HTML Frames, Forms
	2nd	Disadvantages of HTML, Separating Style from structure with Style Sheet
	3rd	CSS, Rules
	4th	Types of CSS
10th Week	1st	Introduction of Script, Client Side Scripting
	2nd	Types of Scripting, Variables of Java Scripting
	3rd	Built in Function
	4th	Arrays in Java Script, Conditional Statements Loops
11th Week	1st	Document Object Model Creating Function
	2nd	Objects in Java Script
	3rd	Event Handling in java Script, Embedding Java Script with HTML
	4th	Working with Cookies
12th Week	1st	Connecting Database using Java Script in HTML Page
	2nd	Working with browser, Validating Submitting Forms
	3rd	Working with browser, Validating Submitting Forms
	4th	Server Side Scripting
13th Week	1st	Introduction to Server Side Scripting
	2nd	Components of SSS
	3rd	Difference Between CSS and SSS
	4th	Server Side Scripting Method
14th Week	1st	Java Script on Server
	2nd	SQL
	3rd	SQL
	4th	PHP Introducing
15th Week	1st	Variables, String, Operator Types
	2nd	Conditional Statements, Loops
	3rd	Array Concept, GET & Post method of Session
	4th	Array Concept, GET & Post method of Session

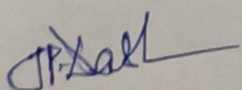

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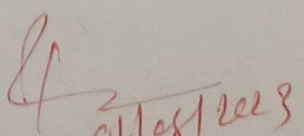

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Academic Lesson Plan of Winter 2023

Department : CSE	Semester : 5TH	Name of the Teaching Faculty : JITENDRA PRASAD DASH
Subject : SOFTWARE ENGINEERING	No. of Days/per week class allotted : 4Period/week	Semester from : 1ST AUGUST 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Program Vs. Software product
	2nd	Emergence of S/w Engg., Computer System Engg.
	3rd	Software Life Cycle Models
	4th	Software Life Cycle Models
2nd Week	1st	Life Cycle Models
	2nd	Responsibility of Project Manager
	3rd	Project Planning
	4th	Matrix for project size estimating
3rd Week	1st	Project Size Estimation Techniques
	2nd	COCOMO Models
	3rd	Scheduling, Organization Team Structure
	4th	Staffing, Risk management & Configuration Management
4th Week	1st	Requirement Gathering & Analysis
	2nd	Software Requirement Specification
	3rd	Content of SRS Characteristics of good SRS
	4th	organization & Techniques of SRS
5th Week	1st	Design of good S/W, Software design Approches
	2nd	Cohesion & Coupling
	3rd	Structured Analysis, Data Flow Diagram
	4th	Symbols used in DFD & Design of DFD
6th Week	1st	Developing DFD Model of a System
	2nd	Short Coming of DFD, Level of DFD
	3rd	Structured Design
	4th	Principles of Transformation of DFD to Structures
7th Week	1st	Transform & Transaction Analysis
	2nd	Design Review
	3rd	Characteristics of good Interface
	4th	Basic Concept of UID
8th Week	1st	Types of User Interface
	2nd	Component Based GUI development

8th Week	3rd	coding, Code Review
	4th	Code Walk Through
9th Week	1st	Code Inspection & S/W Documents
	2nd	Testing & Unit Testing
	3rd	Black Box Testing
	4th	Class Partitioning & boundary Value Analysis
10th Week	1st	White Box Testing
	2nd	White Box Methodology
	3rd	Condition & Path Coverage
	4th	Cyclomatic Complexity
11th Week	1st	Data Flow Based & Mutation Testing
	2nd	Debugging Approaches
	3rd	Debugging Guidelines
	4th	Integration Testing
12th Week	1st	Phased Integration Testing
	2nd	Incremental Integration Testing
	3rd	System Testing, Alpha, Beta & Acceptance Testing
	4th	Performance Testing & Error Seeding
13th Week	1st	General Issues Associated with Testing
	2nd	S/W Reliability
	3rd	S/W Reliability matrices
	4th	Reliability Growth Model
14th Week	1st	S/W Quality
	2nd	S/W Quality Management System
	3rd	S/W Quality Management System
	4th	Doubt clearing class (CHPT -1 &2)
15th Week	1st	Doubt clearing class (CHPT -3 &4)
	2nd	Doubt clearing class (CHPT -5,6 &7)
	3rd	Revision of all topics with Semester Questions
	4th	Revision of all topics with Semester Questions


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Academic Lesson Plan of Winter 2023

Department : CSE	Semester : 5TH	Name of the Teaching Faculty : SOMYASHREE SAMAL
Subject : COMPUTER HARDWARE & MAINTENANCE	No. of Days/per week class allotted : 4Period/week	Semester from : 1ST AUGUST 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Computer System Management
	2nd	Need of Management in Computer Center
	3rd	Types of Jobs carried out in Computer in an Organization
	4th	Duties and Responsibilities of Personal Involved
2nd Week	1st	Need of Training of Staff
	2nd	Idea about various makes of computers
	3rd	Site Preparation and Installation
	4th	
3rd Week	1st	Layout of Computer Center
	2nd	False Roofing, Air Conditioning, Dust Proofing
	3rd	Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of Functioning
	4th	
4th Week	1st	Components and Slots
	2nd	
	3rd	Mother Architecture and Block Diagram
	4th	
5th Week	1st	Processors
	2nd	Chipsets
	3rd	Bus Standards : PCI, AGP,USB etc.
	4th	Clour Codes for Devices/Ports
6th Week	1st	Discuss Memory and I/O Devices
	2nd	Primary and Secondary Memory
	3rd	Memory Speed, Acess Time
	4th	Hard Disk, Construction, Working Principles
7th Week	1st	File Systems, Formatting, Partitioning
	2nd	
	3rd	Removable Storage and Special Devices and their Working Principles
	4th	
	1st	Keyboard, Mouse Interfacing

8th Week	2nd	Keyboard, mouse interfacing
	3rd	Printers (Types, Operatins and Trouble Shooting)
	4th	Scanner (Types, Operatins and Trouble Shooting)
9th Week	1st	Displays and Graphics Cards
	2nd	LCD, PLASMA
	3rd	TFT, LED Displays
	4th	BIOS (Functions, Setups, Types of BIOS)
10th Week	1st	SMPS (Basic Principles and Operations, O/P Voltage)
	2nd	
	3rd	POST (Operation, Faults related to Hardware)
	4th	
11th Week	1st	Assembly of components of Desktop Computers
	2nd	
	3rd	Configuring Laptops and Power Setting
	4th	
12th Week	1st	Laptop Components (Adapter, Battery, Basic problems, Ram types,CPU types)
	2nd	
	3rd	Laptop Components (Laptop Motherboard, Block Diagram, Laptop Keyboard)
	4th	
13th Week	1st	Formatting, Partitioning and Installation of O.S
	2nd	Trouble Shooting of commonly faced problems in Desktops and Laptops
	3rd	Basic Maintenance Concepts
	4th	Diagnostics Programs & Tools
14th Week	1st	Methods of Troubleshooting
	2nd	Upgradation of System and Application S/W
	3rd	Various Concepts, Antivirus
	4th	
15th Week	1st	Network Interfacing Card
	2nd	Networking Devices Such as HUB, SWITCH, ROUTER
	3rd	Types of Network Cable, Types of Connector
	4th	Revision of all topics with Semester Questions

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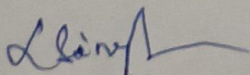
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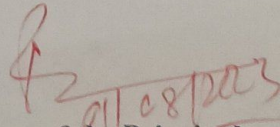
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Academic Lesson Plan of Winter 2023

Department : CSE	Semester : 5TH	Name of the Teaching Faculty : LOPAMUDRA SINGH
Subject : MOBILE COMPUTING	No. of Days/per week class allotted : 4Period/week	Semester from : 1ST AUGUST 2023
		No of Weeks : 15 Weeks
		Topic to be covered :
WEEK	DAYS	TOPIC
1st Week	1st	Introduction to Wireless Networks and Mobile Computing , Networks
	2nd	Wireless network, Mobile Computing
	3rd	Mobile Computing Characteristics
	4th	Application of Mobile Computing
2nd Week	1st	Introduction to Mobile Development Framework
	2nd	C/S Architecture
	3rd	N-tire Architecture and WWW
	4th	Peer to Peer Architecture
3rd Week	1st	Mobile Agent Architecture
	2nd	Introduction to Wireless Transmission
	3rd	Signal, Period, Frequency & Bandwidth
	4th	Antennas Signal Propagation
4th Week	1st	Multiplexing and Modulation
	2nd	Spread Spectrum, Cellular System
	3rd	Medium Access Control
	4th	Introduction, Hidden/Expose Terminal
5th Week	1st	The Basic Access Method
	2nd	Near/ far Terminal
	3rd	SDMA, FDMA, TDMA, CDMA
	4th	Wireless LANS & Communication
6th Week	1st	Infrared Radio Frequency
	2nd	IR Advantages and Disadvantages
	3rd	RF Advantages and Disadvantages
	4th	Wireless Network Architecture Logical
7th Week	1st	Types of WLAN
	2nd	IEEE 802.11
	3rd	MAC Layers
	4th	Security
	1st	Synchronization

8th Week	2nd	Power Management
	3rd	Roaming
	4th	Bluetooth Overview
9th Week	1st	Introduction Obiquitous Wireless Communication
	2nd	Scenario of Mobile Communication
	3rd	Mobile Communication Generation 1G & 3G
	4th	3rd Generation Mobile Communication Network
10th Week	1st	Universal Mobile Telecommunication System (UMTS)
	2nd	Mobile IP Overview, Working with Mobile IP
	3rd	Mobile IP Entities , Mobile IP Agents
	4th	Components of Mobile IP
11th Week	1st	Mobile IPV6 Features
	2nd	Mobile IPV6 Address types and Address Scope
	3rd	Mobile IP Operation
	4th	WWW Architecture for Mobile Computing
12th Week	1st	Need of WAP, Benefits of Wap, Example of WAP
	2nd	WAP Architecture, WAP Protocols
	3rd	WML
	4th	WAP Push Architecture
13th Week	1st	Push-Pull Based Data Acquisition
	2nd	I-mode
	3rd	WAP 2.X
	4th	Wireless Telecom Networks
14th Week	1st	GSM, GPRS
	2nd	IS-95
	3rd	CDMA-2000, W-CDMA
	4th	Wireless Sensor Networks
15th Week	1st	Messaging Services, Short Message Services (SMS)
	2nd	Multimedis Message Services (MMS)
	3rd	Multimedisa Transmission over Wireless
	4th	Revision of all topics with Semester Questions and Doubt Clearing


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