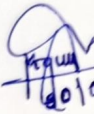


Lesson plan of Winter-2024(2024-2025)
(5TH SEMESTER CSE)

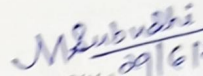
DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MRS. YOGESWARI MAGAR
SUBJECT: Entrepreneurship and Management Technology	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTERFROMDATE: 01/07/2024 TO DATE: 08/11/2024 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Entrepreneurship Concept /Meaning of Entrepreneurship
	2 ND	Need of Entrepreneurship
	3 RD	Characteristics, Qualities and Types of entrepreneur, Functions
	4 TH	Barriers in entrepreneurship
2 ND	1 ST	Entrepreneurs vrs. Manager
	2 ND	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	3 RD	Types of Industries, Concept of Start-ups
	4 TH	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
3 RD	1 ST	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	2 ND	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3 RD	Market Survey and Opportunity Identification (Business Planning) Business Planning
	4 TH	SSI, Ancillary Units
4 TH	1 ST	Tiny Units, Service sector Units
	2 ND	Time schedule Plan
	3 RD	Agencies to be contacted for Project Implementation
	4 TH	Assessment of Demand and supply and Potential areas of Growth
5 TH	1 ST	Identifying Business Opportunity
	2 ND	Final Product selection
	3 RD	Project report Preparation Preliminary project report
	4 TH	Detailed project report
6 TH	1 ST	Techno economic Feasibility
	2 ND	Project Viability
	3 RD	Management Principles Definitions of management
	4 TH	Principles of management
7 TH	1 ST	Functions of management (planning, organising, staffing, directing and controlling etc.)
	2 ND	Functions of management (planning, organising, staffing, directing and controlling etc.)


	3 RD	Level of Management in an Organization
	4 TH	Functional Areas of Management
8 TH	1 ST	a) Production management Functions, Activities Productivity Quality control Production Planning and control
	2 ND	b) Inventory Management Need for Inventory management
	3 RD	Models/Techniques of Inventory management
	4 TH	c) Financial Management Functions of Financial management Management of Working capital Costing (only concept)
9 TH	1 ST	Break even Analysis Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
	2 ND	d) Marketing Management Concept of Marketing and Marketing Management
	3 RD	Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion)
	4 TH	e) Human Resource Management Functions of Personnel Management Manpower Planning, Recruitment,
10 TH	1 ST	Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	2 ND	Leadership and Motivation a) Leadership Definition and Need/Importance
	3 RD	Qualities and functions of a leader Manager Vs Leader
	4 TH	Style of Leadership (Autocratic, Democratic, Participative)
11 TH	1 ST	b) Motivation Definition and characteristics Importance of motivation
	2 ND	Factors affecting motivation Theories of motivation (Maslow) Methods of Improving Motivation
	3 RD	Importance of Communication in Business
		Types and Barriers of Communication
	4 TH	Work Culture, TQM & Safety Human relationship and Performance in Organization
12 TH	1 ST	Relations with Peers, Superiors and Subordinates
	2 ND	TQM concepts: Quality Policy, Quality Management, Quality system
	3 RD	Accidents and Safety, Cause, preventive measures
	4 TH	General Safety Rules , Personal Protection Equipment(PPE)
13 TH	1 ST	Legislation a) Intellectual Property Rights(IPR),
	2 ND	Patents, Trademarks, Copyrights
	3 RD	b) Features of Factories Act 1948 with Amendment (only salient points)
	4 TH	b) Features of Factories Act 1948 with Amendment (only salient points)

14 TH	1 ST	c) Features of Payment of Wages Act 1936 (only salient points)
	2 ND	c) Features of Payment of Wages Act 1936 (only salient points)
	3 RD	Smart Technology Concept of IOT, How IOT works
	4 TH	Components of IOT, Characteristics of IOT
15 TH	1 ST	Categories of IOT
	2 ND	Applications of IOT- Smart Cities, Smart Transportation,
	3 RD	Smart Home, Smart Healthcare, Smart Industry,
	4 TH	Smart Agriculture, Smart Energy Management etc.


20/07/2024

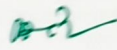
Signature of Faculty


29/6/2024
HOD/In-charge
CSE Dept.

Covered upto 4th week

24/08/2024

Started from 5th week

P. Pratik
24/8/2024


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BERHAMPUR (G.W.)

DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MRS. MOUSUMI SUBUDHI
SUBJECT: Internet and Web Technology	NO.OF DAYS/PER WEEKCLASS ALLOTTED:4	SEMESTERFROMDATE: 01/07/2024 TO DATE: 08/11/2024 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Internet Basics Computer network
	2 ND	Concept of Internet, Intranet
	3 RD	Modem
	4 TH	IP Address, Internet Domains
2 ND	1 ST	CIDR Notation, ISP
	2 ND	TCP/IP
	3 RD	Internet Connectivity & WWW Introduction to connectivity
	4 TH	Medium and methods of connectivity, ISDN, VSAT, RF Link
3 RD	1 ST	Working of Internet
	2 ND	Introduction to WWW
	3 RD	Application Level Protocol
	4 TH	Web Browser, URL, Hyper text
4 TH	1 ST	Hyperlinks, Hypermedia
	2 ND	Search Engine, Proxy sever
	3 RD	CGI, URI, Dreamweaver
	4 TH	Internet Security Introduction to security
5 TH	1 ST	Types of security
	2 ND	Authentication & Authorization
	3 RD	Firewalls
	4 TH	Encryption & Decryption
6 TH	1 ST	SSL
	2 ND	Internet Application E-Mail, Email protocols
	3 RD	Telnet, FTP
	4 TH	Newsgroup
7 TH	1 ST	Chartroom Internet Relay Chat
	2 ND	Video Conferencing
	3 RD	E-Commerce
	4 TH	Website Classifications Static Websites
8 TH	1 ST	Dynamic websites Web portals
	2 ND	Social Networking Sites RSS Feed, Blog, Netiquette
	3 RD	Development of Portals Using HTML Design a webpage, Good Web Design
	4 TH	HTML Introduction
9 TH	1 ST	HTML Tags, Anchor Tag

	2 ND	Table Tag
	3 RD	HTML Frames
	4 TH	Forms
10 TH	1 ST	Disadvantages of HTML
	2 ND	Separating style from structure with style sheets
	3 RD	CSS Rules, Types of CSS
	4 TH	Client side Scripting with JavaScript
		Introduction to script, Client side Scripting, Types of Scripting
11 TH	1 ST	Variables in JavaScript, Built-in Function Arrays in JavaScript, Conditional statements, Loops
	2 ND	Document Object Model Creating Functions, objects in JavaScript
		Working with Cookies
	4 TH	Connecting database using JavaScript in HTML Page
12 TH	1 ST	Working with Browser, validating and submitting Forms
	2 ND	Server Side Scripting Introduction to server side Scripting
	3 RD	Components of SSS Difference between CSS and SSS
	4 TH	Server side Scripting method
13 TH	1 ST	JavaScript on server
	2 ND	SQL
	3 RD	Server Side Programming using PHP Introduction to PHP
	4 TH	Variables, string
14 TH	1 ST	operator types
	2 ND	operator types
	3 RD	Conditional statement
	4 TH	Loops
15 TH	1 ST	Array
	2 ND	GET and POST Method
	3 RD	GET and POST Method
	4 TH	Sessions

Mausumi Subndhi
 Signature of Faculty 29/6/2024

Mausumi Subndhi
 HoD(I/c) 29/6/2024
 CSE Dept.

PRINCIPAL
 Govt. Polytechnic
 KANHAMPUR (G.M.)

DISCIPLINE: CSE	SEMESTER: 5TH	NAME OF THE TEACHING FACULTY: MRS. MOGESHKUMARI MANGAR
SUBJECT: Software Engineering	NO. OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/07/2024 TO DATE: 18/11/2024 NO. OF WEEKS: 15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	1.1 Program vs. Software product 1.2 Emergence of Software Engineering
	2 nd	Computer Systems Engineering Software Life Cycle Models
	3 rd	1.4.1 Classical Water fall model
	4 th	1.4.2 Iterative Water fall model
2 nd	1 st	1.4.3 Prototyping model
	2 nd	Evolutionary model Spiral model
	3 rd	Responsibility of Project Manager Project Planning
	4 th	2.3 Metrics for Project size estimation (LOC and FP)
3 rd	1 st	2.4 Project Estimation Techniques
	2 nd	2.5 COCOMO Models, Basic, Intermediate and complete
	3 rd	2.5 COCOMO Models, Basic, Intermediate and complete
	4 th	2.6 Scheduling
4 th	1 st	2.7 Organization and Team structure
	2 nd	2.8 Staffing
	3 rd	2.9 Risk Management
	4 th	2.10 Configuration Management
5 th	1 st	Requirements gathering and analysis Software Requirements Specification
	2 nd	Software Requirements Specification Contents of SRS
	3 rd	3.2.2 Characteristics of Good SRS
	4 th	3.2.3 Organization of SRS
6 th	1 st	3.2.4 Techniques for representing complexing logic
	2 nd	3.2.4 Techniques for representing complexing logic
	3 rd	What is a Good S/W design Cohesion and coupling
	4 th	Neat arrangement S/W Design approaches
7 th	1 st	Structured analysis Data Flow Diagrams
	2 nd	Symbols used in DFD Designing DFD
	3 rd	4.9 Developing DFD model of a system
	4 th	4.10 Shortcomings of DFD
8 th	1 st	4.11 Structured design
	2 nd	4.12 Principles of transformation of DFD to Structure Chart

	3 rd	4.13 Transform analysis and Transaction Analysis
	4 th	4.14 Design Review
9 th	1 st	5.1 Characteristics of Good Interface
	2 nd	5.2 Basic concepts of UID
	3 rd	5.2 Basic concepts of UID
	4 th	5.3 Types of User interfaces
10 th	1 st	5.3 Types of User interfaces
	2 nd	5.4 Components based GUI development
	3 rd	5.4 Components based GUI development
	4 th	5.4 Components based GUI development
11 th	1 st	6.1 Coding 6.2. Code Review
	2 nd	6.2.1 Code walk through
	3 rd	6.2.2 Code inspections and software Documentation
	4 th	Testing Unit testing
12 th	1 st	6.5 Black Box Testing
	2 nd	6.6 Equivalence class partitioning and boundary value analysis
	3 rd	6.7 White Box Testing
	4 th	6.8 Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage, cyclomatic complexity data flow based testing and mutation testing
13 th	1 st	6.8 Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage, cyclomatic complexity data flow based testing and mutation testing
	2 nd	Debugging approaches Debugging guidelines
	3 rd	6.11 Integration Testing
	4 th	6.11 Integration Testing
14 th	1 st	7.1 Software Reliability
	2 nd	7.2 Different reliability metrics
	3 rd	7.2 Different reliability metrics
	4 th	7.3 Reliability growth modeling
15 th	1 st	7.3 Reliability growth modeling
	2 nd	7.4 Software quality
	3 rd	7.4 Software quality
	4 th	7.5 Software Quality Management System

Signature of Faculty

HoD(I/c)
CSE Dept.

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Govt. Polytechnic
DEPHAMPIUR (G.M.)

DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MRS.MOUSUMI SUBUDHI
SUBJECT: Computer Hardware and Maintenance	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTERFROMDATE:01/07/2024 TO DATE: 08/11/2024
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	1.1 Need of Management in Computer Centre
	2 nd	1.2 Types of Jobs carried out in computers in an organization
	3 rd	1.2 Types of Jobs carried out in computers in an organization
	4 th	1.3 Duties and responsibilities of personnel involved
2 nd	1 st	1.3 Duties and responsibilities of personnel involved
	2 nd	1.4 Need of Training of Staff
	3 rd	1.4 Need of Training of Staff
	4 th	1.5 Idea about Various makes of Computers.
3 rd	1 st	2.1 Layouts of computer centre
	2 nd	2.1 Layouts of computer centre
	3 rd	2.2 False Roofing, Air Conditioning, Dust Proofing
	4 th	2.2 False Roofing, Air Conditioning, Dust Proofing
4 th	1 st	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	2 nd	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	3 rd	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	4 th	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
5 th	1 st	3.1 Components and slots (Processor socket/slot, memory sockets, Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller, power Connector, Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)
	2 nd	3.1 Components and slots (Processor socket/slot, memory sockets, Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller, power Connector, Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)
	3 rd	3.1 Components and slots (Processor socket/slot, memory sockets, Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller, power Connector, Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)
	4 th	3.1 Components and slots (Processor socket/slot, memory sockets, Chip sets, Cache, BIOS, Clock Generator, RTC, I/O Controller, power Connector, Key Board/Mouse Connectors, Jumpers, Pin Connectors etc)
6 ^h	1 st	3.2 Mother architecture and Block Diagram

	2 nd	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	3 rd	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	4 th	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
7 th	1 st	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	2 nd	3.4 Chip Sets
	3 rd	3.5 Bus Standards: PCI, AGP, USB etc.
	4 th	3.6 Colour Codes for Devices/ports
8 th	1 st	4.1 Primary and secondary Memory
	2 nd	4.2 Memory speed , Access time
	3 rd	4.3 Hard Disk, Construction, Working Principles
	4 th	4.4 File System, Formatting, Partitioning
9 th	1 st	4.5 Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	2 nd	4.5 Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	3 rd	4.6 Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
	4 th	4.7 Mouse Interfacing
10 th	1 st	4.8 Printers(Types, operation and Trouble shooting)
	2 nd	4.8 Printers(Types, operation and Trouble shooting)
	3 rd	4.9 Scanners(Types, operation and Trouble Shooting)
	4 th	4.9 Scanners(Types, operation and Trouble Shooting)
11 th	1 st	5.1 Displays and Graphics Cards
	2 nd	5.2 LCD,PLASMA,TFT,LED Displays
	3 rd	5.3 SMPS (Basic Principles and operations, O/P voltage)
	4 th	5.4 BIOS(Functions, setups, types of BIOS)
12 th	1 st	5.5 POST(Operation, Faults related to Hardware)
	2 nd	6.1 Assembly of Components of Desktop Computers
	3 rd	6.2 Configuring Laptops and Power settings

	4 th	6.3 Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
13 th	1 st	6.3 Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
	2 nd	6.4 Formatting , Partitioning and installation of OS
	3 rd	6.5 Trouble shooting of Common ly faced problems in Desktops and Laptops
	4 th	6.6 Basic Maintenance concepts(Preventive, Corrective, online)
14 th	1 st	6.7 Diagnostic programs and tools
	2 nd	6.8 Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)
	3 rd	Up gradation of system and applications software Virus concepts, Antivirus
	4 th	7.1 Network Interface card
15 th	1 st	7.2 Networking interconnecting devices such as hub, switch, Router
	2 nd	7.2 Networking interconnecting devices such as hub, switch, Router
	3 rd	7.3 Types of Network cable
	4 th	7.4 Types of Network connector

M Subudhi
20/7/2024
Signature of Faculty


M Subudhi
29/6/2024
HoD(I/c)
CSE Dept.

Covered upto 4th week

M Subudhi
24/8/2024

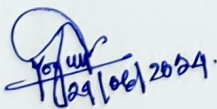
Started from 5th week

Prasad
24/8/2024


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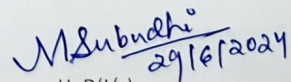
DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MRS. YOGESWARI MAGAR
SUBJECT: Mobile Computing	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE:01/07/2024 TO DATE: 08/11/2024 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY TOPICS
1 ST	1 ST	Networks,
	2 ND	Wireless Networks
	3 RD	Mobile Computing
	4 TH	Mobile Computing Characteristics
2 ND	1 ST	Application of Mobile Computing
	2 ND	Application of Mobile Computing
	3 RD	Introduction to Mobile Development Frameworks C/S architecture
	4 TH	n-tier architecture
3 RD	1 ST	n-tier architecture and www
	2 ND	n-tier architecture and www
	3 RD	Peer-to Peer architecture
	4 TH	Mobile agent architecture
4 TH	1 ST	Introduction to Wireless Transmission Signals
	2 ND	Period, Frequency and Bandwidth. Antennas
	3 RD	Signal Propagation
	4 TH	Multiplexing
5 TH	1 ST	Modulation
	2 ND	Spread Spectrum Cellular System
	3 RD	Introduction to Medium Access Control Hidden/ Exposed Terminals
	4 TH	The basic Access Method
6 TH	1 ST	The basic Access Method
	2 ND	Near / Far Terminals, SDMA
	3 RD	FDMA,TDMA
	4 TH	CDMA
7 TH	1 ST	WIRELESS LANS Wireless LAN and communication, Infrared, Radio Frequency
	2 ND	IR Advantages and Disadvantages RF Advantages and Disadvantages Wireless Network Architecture Logical
	3 RD	Types of WLAN , IEEE802.11,MAC layer
	4 TH	Security, Synchronization
8 TH	1 ST	Power Management, Roaming
	2 ND	Bluetooth Overview

	3 RD	Introduction to Ubiquitous Wireless Communication
	4 TH	Scenario of Mobile Communication
9 TH	1 ST	Mobile Communication Generations 1G to 3G
	2 ND	Mobile Communication Generations 1G to 3G
	3 RD	3 rd Generation Mobile Communication Network
	4 TH	Universal Mobile telecommunication System (UMTS)
10 TH	1 ST	Overview Mobile IP Working with mobile IP
	2 ND	Mobile IP Entities, Mobility Agents
	3 RD	Components of Mobile IP Mobile IPv6 Features
	4 TH	Mobile IPv6 Address Types
11 TH	1 ST	Mobile IPv6 Address Scope.
	2 ND	Mobile IP Operation.
	3 RD	Mobile Computing WWW architecture for Mobile computing Need of WAP Benefits of WAP
	4 TH	Examples of WAP, WAP- Architecture
12 TH	1 ST	WML
	2 ND	WAP Push architecture
	3 RD	Push-Pull based data acquisition
	4 TH	I-mode , WAP 2.x
13 TH	1 ST	Wireless Telecomm Networks GSM
	2 ND	GPRS
	3 RD	IS-95
	4 TH	CDMA-2000
14 TH	1 ST	W-CDMA
	2 ND	Wireless Sensor Networks
	3 RD	Messaging Services Short Message Services (SMS)
	4 TH	Short Message Services (SMS)
15 TH	1 ST	Multimedia Message Services (MMS)
	2 ND	Multimedia Message Services (MMS)
	3 RD	Multimedia transmission over wireless
	4 TH	Multimedia transmission over wireless

 29/06/2024

Signature of Faculty

At 2

 29/6/2024

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