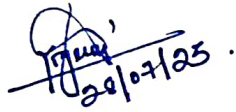


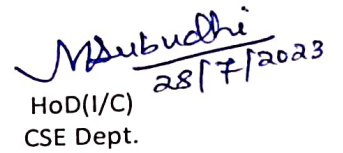
Lesson plan of Winter- 2023 (2023-24)
(3RD SEMESTER CSE)

DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY:MRS YOGESWARI MAGAR
SUBJECT: Computer System Architecture	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Basic structure of computer hardware
	2ND	Basic Structure of computer hardware
	3RD	Functional Units
	4TH	Computer components
2ND	1ST	Performance measures
	2ND	Memory addressing & Operations
	3RD	Instructions & instruction Sequencing
	4TH	Fundamentals to instructions
3RD	1ST	Fundamentals to instructions
	2ND	Operands
	3RD	Op Codes
	4TH	Instruction formats
4TH	1ST	Addressing Modes
	2ND	Processor System
	3RD	Register Files
	4TH	Complete instruction execution
5TH	1ST	Complete instruction execution
	2ND	Fetch
	3RD	Decode
	4TH	Execution
6TH	1ST	Hardware control
	2ND	Hardware control
	3RD	Micro program control
	4TH	Memory System
7TH	1ST	Memory characteristics
	2ND	Memory characteristics
	3RD	Memory hierarchy
	4TH	Memory hierarchy
8TH	1ST	RAM and ROM organization
	2ND	Interleaved Memory
	3RD	Cache memory
	4TH	Cache memory
9TH	1ST	Virtual memory
	2ND	Input – Output System
	3RD	Input - Output Interface
	4TH	Modes of Data transfer
10TH	1ST	Modes of Data transfer

	2ND	Programmed I/O Transfer
	3RD	Programmed I/O Transfer
	4TH	Interrupt driven I/O
11TH	1ST	Interrupt driven I/O
	2ND	DMA
	3RD	I/O Processor
	4TH	I/O Interface & Bus architecture
12TH	1ST	Bus and System Bus
	2ND	Types of System Bus
	3RD	Data Bus
	4TH	Address Bus Control
13TH	1ST	Bus Structure
	2ND	Bus Structure
	3RD	Basic Parameters of Bus design
	4TH	SCSI
14TH	1ST	USB
	2ND	Parallel Processing
	3RD	Parallel Processing
	4TH	Linear Pipeline
15TH	1ST	Multiprocessor
	2ND	Multiprocessor
	3RD	Flynn"s Classification
	4TH	Flynn"s Classification

 28/07/23

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 28/7/2023
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DISCIPLINE:CSE	SEMESTER:3 RD	NAME OF THE TEACHING FACULTY: MRS MOUSUMI SUBUDHI
SUBJECT: Data Structure	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Explain Data, Information, data types
	2ND	Define data structure & Explain different operations Explain Abstract data types
	3RD	Discuss Algorithm & its complexity
	4TH	Explain Time, space tradeoff
2ND	1ST	Explain Basic Terminology, Storing Strings
	2ND	State Character Data Type, Discuss String Operations
	3RD	Discuss String Operations
	4TH	Give Introduction about array, Discuss Linear arrays, representation of linear array In memory
3RD	1ST	Explain traversing linear arrays, inserting & deleting elements
	2ND	Discuss multidimensional arrays, representation of two dimensional arrays in memory (row major order & column major order), and pointers
	3RD	Discuss multidimensional arrays, representation of two dimensional arrays in memory (row major order & column major order), and pointers
	4TH	Discuss multidimensional arrays, representation of two dimensional arrays in memory (row major order & column major order), and pointers
4TH	1ST	Explain sparse matrices.
	2ND	Explain sparse matrices.
	3RD	Give fundamental idea about Stacks and queues
	4TH	Give fundamental idea about Stacks and queues
5TH	1ST	Explain array representation of Stack
	2ND	Explain arithmetic expression ,polish notation & Conversion
	3RD	Explain arithmetic expression ,polish notation & Conversion
	4TH	Discuss application of stack, recursion
6TH	1ST	Discuss queues, circular queue, priority queues.
	2ND	Discuss queues, circular queue, priority queues.
	3RD	Give Introduction about linked list Explain representation of linked list in memory
	4TH	Discuss traversing a linked list, searching

		Discuss traversing a linked list, searching,
	1ST	Discuss garbage collection.
7TH	2ND	Explain Insertion into a linked list, Deletion from a linked list, header linked list
	3RD	Explain Insertion into a linked list, Deletion from a linked list, header linked list
	4TH	Explain Insertion into a linked list, Deletion from a linked list, header linked list
8TH	1ST	Explain Insertion into a linked list, Deletion from a linked list, header linked list
	2ND	Explain Insertion into a linked list, Deletion from a linked list, header linked list
	3RD	Explain Basic terminology of Tree
	4TH	Explain Basic terminology of Tree
9TH	1ST	Discuss Binary tree, its representation and traversal, binary search tree, searching,
	2ND	Discuss Binary tree, its representation and traversal, binary search tree, searching,
	3RD	Discuss Binary tree, its representation and traversal, binary search tree, searching,
	4TH	Explain insertion & deletion in a binary search trees
10TH	1ST	Explain insertion & deletion in a binary search trees
	2ND	Explain insertion & deletion in a binary search trees
	3RD	Explain graph terminology & its representation,
	4TH	Explain graph terminology & its representation,
11TH	1ST	Explain graph terminology & its representation,
	2ND	Explain Adjacency Matrix, Path Matrix
	3RD	Explain Adjacency Matrix, Path Matrix
	4TH	Explain Adjacency Matrix, Path Matrix
12TH	1ST	Discuss Algorithms for Bubble sort, Quicksort,
	2ND	Discuss Algorithms for Bubble sort, Quicksort,
	3RD	Discuss Algorithms for Bubble sort, Quicksort,
	4TH	Merging
13TH	1ST	Merging
	2ND	Linear searching, Binary searching
	3RD	Linear searching, Binary searching
	4TH	Linear searching, Binary searching
14TH	1ST	Discuss Different types of files organization and their access method,
	2ND	Discuss Different types of files organization and their access method,
	3RD	Discuss Different types of files organization and their access method,
	4TH	Discuss Different types of files organization and their access method,

15TH

15TH	1ST	Introduction to Hashing, Hash function, collision resolution, open addressing.
	2ND	Introduction to Hashing, Hash function, collision resolution, open addressing.
	3RD	Introduction to Hashing, Hash function, collision resolution, open addressing.
	4TH	Introduction to Hashing, Hash function, collision resolution, open addressing.


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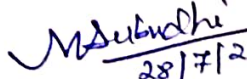
M. Subudhi
28/7/2023
HoD(I/c)
CSE Dept.

DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY: MRS LIPIKA SANDHA
SUBJECT: Digital Electronics	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Basics of Digital Electronics
	2ND	Number System-Binary, Octal, Decimal, Hexadecimal - Conversion from one system to another number system.
	3RD	Arithmetic Operation-Addition, Subtraction, Multiplication, Division, 1's & 2's complement of Binary numbers& Subtraction using complements method
	4TH	Arithmetic Operation-Addition, Subtraction, Multiplication, Division, 1's & 2's complement of Binary numbers& Subtraction using complements method
2ND	1ST	Digital Code & its application & distinguish between weighted & non-weight Code, Binary codes, excess-3 and Gray codes.
	2ND	Digital Code & its application & distinguish between weighted & non-weight Code, Binary codes, excess-3 and Gray codes.
	3RD	Logic gates: AND,OR,NOT,NAND,NOR, Exclusive-OR, Exclusive-NOR--Symbol, Function, expression, truth table & timing diagram
	4TH	Logic gates: AND,OR,NOT,NAND,NOR, Exclusive-OR, Exclusive-NOR--Symbol, Function, expression, truth table & timing diagram
3RD	1ST	Universal Gates& its Realisation
	2ND	Boolean algebra, Boolean expressions, Demorgan's Theorems.
	3RD	Represent Logic Expression: SOP & POS forms
	4TH	Karnaugh map (3 & 4 Variables)&Minimization of logical expressions ,don't care conditions
4TH	1ST	Combinational Logic Circuits
	2ND	Half adder, Full adder, Half Subtractor, Full Subtractor, Serial and Parallel Binary 4 bit adder.
	3RD	Half adder, Full adder, Half Subtractor, Full Subtractor, Serial and Parallel Binary 4 bit adder.
	4TH	Half adder, Full adder, Half Subtractor, Full Subtractor, Serial and Parallel Binary 4 bit adder.

5TH	1ST	Multiplexer (4:1), De-multiplexer (1:4), Decoder, Encoder, Digital comparator (3 Bit)
	2ND	Multiplexer (4:1), De-multiplexer (1:4), Decoder, Encoder, Digital comparator (3 Bit)
	3RD	Multiplexer (4:1), De-multiplexer (1:4), Decoder, Encoder, Digital comparator (3 Bit)
	4TH	Multiplexer (4:1), De-multiplexer (1:4), Decoder, Encoder, Digital comparator (3 Bit)
6TH	1ST	Seven segment Decoder
	2ND	Seven segment Decoder
	3RD	Seven segment Decoder
	4TH	Sequential logic Circuits
7TH	1ST	Principle of flip-flops operation, its Types
	2ND	Principle of flip-flops operation, its Types
	3RD	SR Flip Flop using NAND,NOR Latch (un clocked)
	4TH	SR Flip Flop using NAND,NOR Latch (un clocked)
8TH	1ST	SR Flip Flop using NAND,NOR Latch (un clocked)
	2ND	SR Flip Flop using NAND,NOR Latch (un clocked)
	3RD	SR Flip Flop using NAND,NOR Latch (un clocked)
	4TH	C l o c k e d SR,D,JK,T,JK Master Slave flip-flops-Symbol, logic Circuit, truth table and applications
9TH	1ST	C l o c k e d SR,D,JK,T,JK Master Slave flip- fops-Symbol, logic Circuit, truth table and applications
	2ND	C l o c k e d SR,D,JK,T,JK Master Slave flip- fops-Symbol, logic Circuit, truth table and applications
	3RD	Concept of Racing and how it can be avoided.
	4TH	Concept of Racing and how it can be avoided.
10TH	1ST	Registers, Memories & PLD
	2ND	Shift Registers-Serial in Serial -out, Serial- in Parallel-out, Parallel in serial out and Parallel in parallel out
	3RD	Shift Registers-Serial in Serial -out, Serial- in Parallel-out, Parallel in serial out and Parallel in parallel out
	4TH	Universal shift registers-Applications
11TH	1ST	Types of Counter & applications

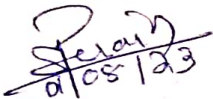
	2ND	Binary counter, Asynchronous ripple counter (UP & DOWN), Decade counter. Synchronous counter, Ring Counter.
	3RD	Concept of memories-RAM, ROM, static RAM, dynamic RAM,PS RAM
	4TH	Basic concept of PLD & applications
12TH	1ST	A/D and D/A Converters
	2ND	Necessity of A/D and D/A converters.
	3RD	D/A conversion using weighted resistors methods.
	4TH	D/A conversion using R-2R ladder (Weighted resistors) network.
13TH	1ST	D/A conversion using R-2R ladder (Weighted resistors) network.
	2ND	A/D conversion using counter method.
	3RD	A/D conversion using Successive approximate method
	4TH	LOGIC FAMILIES
14TH	1ST	Various logic families &categories according to the IC fabrication process
	2ND	Various logic families &categories according to the IC fabrication process
	3RD	Various logic families &categories according to the IC fabrication process
	4TH	Characteristics of Digital ICs- Propagation Delay, fan-out, fan- in, Power Dissipation ,Noise Margin ,Power Supply requirement &Speed with Reference to logic families.
15TH	1ST	Characteristics of Digital ICs- Propagation Delay, fan-out, fan- in, Power Dissipation ,Noise Margin ,Power Supply requirement &Speed with Reference to logic families.
	2ND	Characteristics of Digital ICs- Propagation Delay, fan-out, fan- in, Power Dissipation ,Noise Margin ,Power Supply requirement &Speed with Reference to logic families.
	3RD	Features, circuit operation &various applications of TTL(NAND), CMOS (NAND & NOR)
	4TH	Features, circuit operation &various applications of TTL(NAND), CMOS (NAND & NOR)

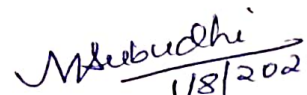

28/07/2023
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28/7/2023
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CSE Dept.

DISCIPLINE:CSE	SEMESTER:3RD	NAME OF THE TEACHING FACULTY:MR PRAMOD KUMAR SWAIN
SUBJECT: Object Oriented Methodology	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Programming Languages
	2ND	Object Oriented Programming
	3RD	OOPS concepts and terminology
	4TH	Benefit of OOPS
2ND	1ST	Application of OOPS
	2ND	Introduction to Java ,What is Java
	3RD	Execution Model of Java ,The Java Virtual Machine
	4TH	Benefit of OOPS
3RD	1ST	Primitive Data types & Declarations
	2ND	Numeric , Character Literals and String Literals
	3RD	Arrays, Non-Primitive Data types
	4TH	Casting and Type Casting
4TH	1ST	Widening and Narrowing Conversions
	2ND	Operators and Expressions
	3RD	Control Flow Statements
	4TH	The concept of Objects and Classes Concept and Syntax of class
5TH	1ST	Defining a Class , Concept and Syntax of Methods
	2ND	Defining Methods , Creating an Object
	3RD	Accessing Class Members , Instance Data and Class Data
	4TH	Constructors
6TH	1ST	Access Specifiers
	2ND	Access Modifiers
	3RD	Access Control
	4TH	Use of Java Objects String Builder and String Buffer
7TH	1ST	String Builder and String Buffer
	2ND	Methods and Messages
	3RD	Methods and Messages
	4TH	Parameter Passing
8TH	1ST	Comparing and Identifying Objects
	2ND	The Concept of Inheritance
	3RD	Inheritance in Java
	4TH	Use of Inheritance
9TH	1ST	Types of Inheritance
	2ND	Single Inheritance
	3RD	Multi-level Inheritance
	4TH	Hierarchical Inheritance
10TH	1ST	Hybrid Inheritance
	2ND	The concept of Polymorphism
	3RD	Types of Polymorphism
	4TH	Types of Polymorphism
11TH	3RD	Run time Polymorphism

	4TH	Run time Polymorphism
12TH	1ST	Method Overriding
	2ND	Introduction to Packages
	3RD	Java API Packages, Using System Packages
	4TH	Naming Convention ,Creating Packages
13TH	1ST	Accessing a Package ,Using a Package
	2ND	Adding a Class to Package
	3RD	Hiding Classes ,Static Import
	4TH	Concept of Java Files and I/O Defining a stream
14TH	1ST	Reading and writing to files(only txt files) Input and Output Stream
	2ND	Manipulating Input data & Opening and Closing Streams
	3RD	Predefined streams
	4TH	File handling Classes and Methods
15TH	1ST	Exception Handling ,Exceptions Overview
	2ND	Exception Keywords ,Catching Exceptions
	3RD	Using Finally Statement , Exception Methods Declaring Exceptions


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1/8/2023
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CSE Dept.

WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
DISCIPLINE: CSE	SEMESTER: 3RD	NAME OF THE TEACHING FACULTY: MRS ITUSHREE RANI RATHA
SUBJECT: Environmental Studies	NO. OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 NO. OF WEEKS: 15
1ST	1ST	The Multidisciplinary nature of environmental studies:
	2ND	Definition,
	3RD	scope and importance.
	4TH	Need for public awareness.
2ND	1ST	Natural Resources: Renewable and non-renewable resources: a) Natural resources and associated problems.
	2ND	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	3RD	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	4TH	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
3RD	1ST	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
	2ND	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	3RD	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	4TH	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.
4TH	1ST	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	2ND	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. b) Role of individual in conservation of natural resources. c) Equitable use of resources for sustainable life styles.

	3RD	Systems: Concept of an eco-system.
5TH	4TH	Structure and function of an eco-system.
	1ST	Producers, consumers, decomposers. 3.4.
		Energy flow in the eco systems.
	2ND	Ecological succession.
6TH	3RD	Food chains, food webs and ecological pyramids.
	4TH	Introduction, types, characteristic features, structure and function of the following eco system:
	1ST	Forest ecosystem:
	2ND	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	3RD	Biodiversity and it's Conservation: 4.1. Introduction- Definition: genetics, species and ecosystem diversity.
7TH	4TH	Biogeographically classification of India.
	1ST	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
	2ND	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.
	3RD	Biodiversity at global, national and local level.
8TH	4TH	Biodiversity at global, national and local level.
	1ST	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	2ND	Environmental Pollution: 5.1. Definition Causes, effects and control measures of:
	3RD	a) Air pollution. b) Water pollution.
9TH	4TH	c) Soil pollution d) Marine pollution
	1ST	e) Noise pollution.
	2ND	f) Thermal pollution
	3RD	g) Nuclear hazards.
10TH	4TH	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	1ST	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2ND	Role of an individual in prevention of pollution.
	3RD	Role of an individual in prevention of pollution.
11TH	4TH	Disaster management: Floods, earth quake, cyclone and landslides.
	1ST	Disaster management: Floods, earth quake, cyclone and landslides.
	2ND	Social issues and the Environment:
	3RD	Form unsustainable to sustainable development.
	4TH	Urban problems related to energy.

	1ST	Water conservation, rain water harvesting, water shed management.
	2ND	Resettlement and rehabilitation of people; its problems and concern.
	3RD	Environmental ethics: issue and possible solutions.
	4TH	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
13TH	1ST	Air (prevention and control of pollution) Act
	2ND	Water (prevention and control of pollution) Act.
	3RD	Public awareness.
	4TH	Human population and the environment:
14TH	1ST	Population growth and variation among nations.
	2ND	Population explosion- family welfare program.
	3RD	Environment and human health.
	4TH	Human rights.
15TH	1ST	Value education
	2ND	Role of information technology in environment and human health.
	3RD	Role of information technology in environment and human health.
	4TH	Role of information technology in environment and human health.

Shreshree Rani Rath
 Signature of Faculty 01/08/2023

M. Subudhi
 HoD (I/c)
 CSE Dept. 1/8/2023

WINTER 3

Lesson plan of Winter-2023(2023-2024)
(5TH SEMESTER CSE)

DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MRS. ASHRITA NAYAK
SUBJECT: Entrepreneurship and Management Technology	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTERFROMDATE: 01/08/2023 TO DATE: 30/11/2023 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.)

Level of Management in an Organisation

Functional Areas of Management

	3 RD	a) Production management Functions, Activities
	4 TH	Productivity Quality control Production Planning and control
8 TH	1 ST	b) Inventory Management Need for Inventory management
	2 ND	Models/Techniques of Inventory management
	3 RD	c) Financial Management Functions of Financial management
	4 TH	Management of Working capital Costing (only concepts)
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
	4 TH	Types and Barriers of Communication
12 TH	1 ST	Work Culture, TQM & Safety Human relationship and Performance in Organization
	2 ND	Relations with Peers, Superiors and Subordinates
	3 RD	TQM concepts: Quality Policy, Quality Management, Quality system
	4 TH	Accidents and Safety, Cause, preventive measures
13 TH	1 ST	General Safety Rules , Personal Protection Equipment(PPE)
	2 ND	Legislation a) Intellectual Property Rights(IPR), 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	
	2 ND	c) Features of Payment of Wages Act 1936 (only salient points)
	3 RD	c) Features of Payment of Wages Act 1936 (only salient points)
	4 TH	Smart Technology Concept of IOT, How IOT works
15 TH	1 ST	Components of IOT, Characteristics of IOT
	2 ND	Categories of IOT
	3 RD	Applications of IOT- Smart Cities, Smart Transportation,
	4 TH	Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.

Anayan
01/08/23
Signature of Faculty

M. Subudhi
1/8/2023
HoD(I/c)
CSE Dept.

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: 01/08/2023TO DATE:30/11/2023 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
	4 TH	Disadvantages of HTML
10 TH	1 ST	Separating style from structure with style sheets
	2 ND	CSS Rules, Types of CSS
	3 RD	Client side Scripting with JavaScript
	4 TH	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


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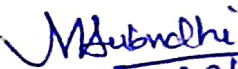
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WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
DISCIPLINE: CSE SUBJECT: Software Engineering SEMESTER: 5TH NO. OF DAYS/PER WEEK CLASS ALLOTTED: 4 NAME OF THE TEACHING FACULTY: SMT YOGESWARI MAGAR SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 NO. OF WEEKS: 15		
1 st	1 st	1.1 Program vs. Software product
	2 nd	1.2 Emergence of Software Engineering.
	3 rd	Computer Systems Engineering
	4 th	Software Life Cycle Models
2 nd	1 st	1.4.1 Classical Water fall model
	2 nd	1.4.2 Iterative Water fall model
	3 rd	1.4.3 Prototyping model
	4 th	Evolutionary model
3 rd	1 st	Spiral model
	2 nd	Responsibility of Project Manager
	3 rd	Project Planning
	4 th	2.3 Metrics for Project size estimation (LOC and FP)
4 th	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
5 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
6 th	1 st	Requirements gathering and analysis
	2 nd	Software Requirements Specification
	3 rd	Software Requirements Specification Contents of SRS
	4 th	3.2.2 Characteristics of Good SRS
7 th	1 st	3.2.3 Organization of SRS
	2 nd	3.2.4 Techniques for representing complexing logic
	3 rd	3.2.4 Techniques for representing complexing logic
	4 th	What is a Good S/W design
8 th	1 st	Cohesion and coupling
	2 nd	Neat arrangement
	3 rd	S/W Design approaches
	4 th	Structured analysis
	1 st	Data Flow Diagrams
	2 nd	Symbols used in DFD
	3 rd	Designing DFD
	4 th	4.9 Developing DFD model of a system
	1 st	4.10 Shortcomings of DFD
	2 nd	4.11 Structured design
	3 rd	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
	2 nd	6.2 Code Review
	3 rd	6.2.1 Code walk through
	4 th	6.2.2 Code inspections and software Documentation
12 th	1 st	Testing Unit testing
	2 nd	6.5 Black Box Testing
	3 rd	6.6 Equivalence class partitioning and boundary value analysis
	4 th	6.7 White Box 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	6.8 Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage, cyclomatic complexity data flow based testing and mutation testing
	3 rd	Debugging approaches Debugging guidelines
	4 th	6.11 Integration Testing
14 th	1 st	6.11 Integration Testing
	2 nd	7.1 Software Reliability
	3 rd	7.2 Different reliability metrics
	4 th	7.2 Different reliability metrics
15 th	1 st	7.3 Reliability growth modeling
	2 nd	7.3 Reliability growth modeling
	3 rd	7.4 Software quality
	4 th	7.4 Software quality
		7.5 Software Quality Management System

LINE: CSE
ECT: Computer Hardware and Maintenance
WEEK


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DISCIPLINE: CSE	SEMESTER: 5TH	NAME OF THE TEACHING FACULTY: MR PRAMOD KUMAR SWAIN
SUBJECT: Computer Hardware and Maintenance	NO. OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 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

P. Prasad
01/08/23
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1/8/2023
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NAME: CSE		SEMESTER: 5TH	NAME OF THE TEACHING FACULTY: MRS. PRATIBHA PATNAIK
SUBJECT: Mobile Computing		NO. OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/08/2023 TO DATE: 30/11/2023 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	

		Introduction to Ubiquitous Wireless Communication
	3 RD	
	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

Pratibha Petrait
1/8/2023
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1/8/2023
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