

Lesson plan of 2021-2022

DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: Sri Lakshmi Dhar Sethy
SUBJECT: EM	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 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 Organisation
	4 TH	Functional Areas of Management a) Production management Functions, Activities
8 TH	1 ST	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.
DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: Smt Reetanjali Panda
SUBJECT: IWT	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 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

DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SMT SUMITRA MAHAPATRA
SUBJECT:SE	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Program vs. Software product Emergence of Software Engineering.
	2 nd	Computer Systems Engineering Software Life Cycle Models
	3 rd	Classical Water fall model
	4 th	Iterative Water fall model
2 nd	1 st	Prototyping model
	2 nd	Evolutionary model Spiral model

	3 rd	Responsibility of Project Manager Project Planning
	4 th	Metrics for Project size estimation(LOC and FP)
3 rd	1 st	Project Estimation Techniques
	2 nd	COCOMO Models, Basic, Intermediate and complete
	3 rd	COCOMO Models, Basic, Intermediate and complete
	4 th	Scheduling
4 th	1 st	Organization and Team structure
	2 nd	Staffing
	3 rd	Risk Management
	4 th	Configuration Management
5 th	1 st	Requirements gathering and analysis Software Requirements Specification
	2 nd	Software Requirements Specification Contents of SRS
	3 rd	Characteristics of Good SRS
	4 th	Organization of SRS
6 ^h	1 st	Techniques for representing complexing logic
	2 nd	Techniques for representing complexing logic
	3 rd	What is a Good S/W design Cohesion and coupling
	4 th	Neat arrangement 4.4S/W Design approaches
7 th	1 st	Structured analysis Data Flow Diagrams
	2 nd	Symbols used in DFD Designing DFD
	3 rd	Developing DFD model of a system
	4 th	Shortcomings of DFD
8 th	1 st	Structured design
	2 nd	Principles of transformation of DFD to Structure Chart
	3 rd	Transform analysis and Transaction Analysis
	4 th	Design Review
9 th	1 st	Characteristics of Good Interface
	2 nd	Basic concepts of UID
	3 rd	Basic concepts of UID
	4 th	Types of User interfaces
10 th	1 st	Types of User interfaces
	2 nd	Components based GUI development
	3 rd	Components based GUI development
	4 th	Components based GUI development
11 th	1 st	Coding Code Review
	2 nd	Code walk through
	3 rd	Code inspections and software Documentation
	4 th	Testing Unit testing

12 th	1 st	Black Box Testing
	2 nd	Equivalence class partitioning and boundary value analysis
	3 rd	White Box Testing
	4 th	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	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	Integration Testing
	4 th	Integration Testing
14 th	1 st	Software Reliability
	2 nd	Different reliability metrics
	3 rd	Different reliability metrics
	4 th	Reliability growth modeling
15 th	1 st	Reliability growth modeling
	2 nd	Software quality
	3 rd	Software quality
	4 th	Software Quality Management System
DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SRI PABITRA KUMAR MAHARANA
SUBJECT:CM	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Need of Management in Computer Centre
	2 nd	Types of Jobs carried out in computers in an organization
	3 rd	Types of Jobs carried out in computers in an organization
	4 th	Duties and responsibilities of personnel involved
2 nd	1 st	Duties and responsibilities of personnel involved
	2 nd	Need of Training of Staff
	3 rd	Need of Training of Staff
	4 th	Idea about Various makes of Computers.
3 rd	1 st	Layouts of computer centre
	2 nd	Layouts of computer centre
	3 rd	False Roofing, Air Conditioning, Dust Proofing
	4 th	False Roofing, Air Conditioning, Dust Proofing
4 th	1 st	Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	2 nd	Power Conditioning equipments like CVT, UPS,

		Isolation Circuits with Principles of functioning
	3 rd	Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	4 th	Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
5 th	1 st	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	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	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	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	Mother architecture and Block Diagram
	2 nd	Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	3 rd	Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	4 th	Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
7 th	1 st	Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	2 nd	Chip Sets
	3 rd	Bus Standards: PCI, AGP, USB etc.
	4 th	Colour Codes for Devices/ports
8 th	1 st	Primary and secondary Memory
	2 nd	Memory speed , Access time
	3 rd	Hard Disk, Construction, Working Principles
	4 th	File System, Formatting, Partitioning
9 th	1 st	Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick,USB flash drive, Solid state drive)
	2 nd	Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	3 rd	Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)

	4 th	Mouse Interfacing
10 th	1 st	Printers(Types, operation and Trouble shooting)
	2 nd	Printers(Types, operation and Trouble shooting)
	3 rd	Scanners(Types, operation and Trouble Shooting)
	4 th	Scanners(Types, operation and Trouble Shooting)
11 th	1 st	Displays and Graphics Cards
	2 nd	LCD,PLASMA,TFT,LED Displays
	3 rd	SMPS (Basic Principles and operations, O/P voltage)
	4 th	BIOS(Functions, setups, types of BIOS)
12 th	1 st	POST(Operation, Faults related to Hardware)
	2 nd	Assembly of Components of Desktop Computers
	3 rd	Configuring Laptops and Power settings
	4 th	Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
13 th	1 st	Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
	2 nd	Formatting , Partitioning and installation of OS
	3 rd	Trouble shooting of Common ly faced problems inDesktops and Laptops
	4 th	Basic Maintenance concepts(Preventive, Corrective,online)
14 th	1 st	Diagnostic programs and tools
	2 nd	Methods of Trouble shooting(symptom observation,analysis, diagnosis, Correction)
	3 rd	Up gradation of system and application software Virus concepts, Antivirus
	4 th	Network Interface card
15 th	1 st	Networking interconnecting devices such as hub,switch, Router
	2 nd	Networking interconnecting devices such as hub,switch, Router
	3 rd	Types of Network cable
	4 th	Types of Network connector
DISCIPLINE:CSE		SEMESTER:5TH
		NAME OF THE TEACHING FACULTY:SMT NAINA PATEL
SUBJECT: MC		NO.OF DAYS/PER WEEK CLASS ALLOTTED:4
		SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022
		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
DISCIPLINE: CSE/IT	SEMESTER:5th	NAME OF THE TEACHING FACULTY: Smt Reetanjali Panda & Smt. Sumitra Mahapatra
SUBJECT:WD LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	DATE	TOPICS TO BE COVERED AS PER LESSON PLAN
1 ST	1 ST	Developing portals using HTML Introduction to

		HTML 5 and CSS 3
	2ND	Basic structure of HTML, designing a web page
	3RD	Basic structure of HTML, designing a web page
	4TH	Basic structure of HTML, designing a web page
2ND	1ST	inserting links images, horizontal rules, comments.
	2ND	inserting links images, horizontal rules, comments.
	3RD	inserting links images, horizontal rules, comments.
	4TH	inserting links images, horizontal rules, comments.
3RD	1ST	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	2ND	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	3RD	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	4TH	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
4TH	1ST	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	2ND	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	3RD	Adding graphics and images, image maps, image files.
	4TH	Adding graphics and images, image maps, image files.
5TH	1ST	Adding graphics and images, image maps, image files.
	2ND	Adding graphics and images, image maps, image files.
	3RD	Adding graphics and images, image maps, image

		files.
	4TH	Using tables, forms, style sheets and frames.
6TH	1ST	Using tables, forms, style sheets and frames.
	2ND	Using tables, forms, style sheets and frames.
	3RD	Using tables, forms, style sheets and frames.
	4TH	Using tables, forms, style sheets and frames.
7TH	1ST	Floating of web site/pages
	2ND	Floating of web site/pages
	3RD	Floating of web site/pages
	4TH	Introduction to PHP: How PHP Works
8TH	1ST	Introduction to PHP: How PHP Works
	2ND	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	3RD	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	4TH	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
9TH	1ST	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	2ND	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	3RD	decision making, loops, arrays, strings
	4TH	decision making, loops, arrays, strings
10TH	1ST	decision making, loops, arrays, strings
	2ND	decision making, loops, arrays, strings
	3RD	decision making, loops, arrays, strings

	4TH	forms, get and post methods, functions.
11TH	1ST	forms, get and post methods, functions.
	2ND	forms, get and post methods, functions.
	3RD	Introduction to cookies, storage of cookies at client side, Using information of cookies.
	4TH	Introduction to cookies, storage of cookies at client side, Using information of cookies.
12TH	1ST	Introduction to cookies, storage of cookies at client side, Using information of cookies.
	2ND	Creating single or multiple server side sessions.
	3RD	Creating single or multiple server side sessions.
	4TH	Creating single or multiple server side sessions.
13TH	1ST	Timeout in sessions, Event management in PHP
	2ND	Timeout in sessions, Event management in PHP
	3RD	Timeout in sessions, Event management in PHP
	4TH	Introduction to content management systems based on PHP.
14TH	1ST	Introduction to content management systems based on PHP.
	2ND	Introduction to MySQL,
	3RD	connecting to MySQL
	4TH	database, creation, insertion, deletion
15TH	1ST	database, creation, insertion, deletion
	2ND	database, creation, insertion, deletion
	3RD	retrieval of MySQL data using PHP.
	4TH	retrieval of MySQL data using PHP.
DISCIPLINE:CSE	SEMESTER: 5th	NAME OF THE TEACHING FACULTY: Sri Lakshmi Dhar Sethy and Sri Pabitra

		Kumar Maharana
SUBJECT:CM LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01 /10 /2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
1st	1st	Study of layout of Mother Board and different components
	2nd	Study of layout of Mother Board and different components
	3rd	Study of layout of Mother Board and different components
	4th	Study of layout of Mother Board and different components
2nd	1st	Study of layout of Mother Board and different components
	2nd	Study of layout of Mother Board and different components
	3rd	Study of Expansion slots, Bus structure and ports with color codes
	4th	Study of Expansion slots, Bus structure and ports with color codes
3rd	1st	Study of Expansion slots, Bus structure and ports with color codes

	2nd	Study of Expansion slots, Bus structure and ports with color codes
	3rd	Study of Expansion slots, Bus structure and ports with color codes
	4th	Study of Expansion slots, Bus structure and ports with color codes
4th	1st	Study of functioning of SMPS with O/P voltage and connectors
	2nd	Study of functioning of SMPS with O/P voltage and connectors
	3rd	Study of functioning of SMPS with O/P voltage and connectors
	4th	Study of functioning of SMPS with O/P voltage and connectors
5th	1st	Study of functioning of SMPS with O/P voltage and connectors
	2nd	Study of functioning of SMPS with O/P voltage and connectors
	3rd	Study of HDD Interfaces
	4th	Study of HDD Interfaces
6h	1st	Study of HDD Interfaces
	2nd	Study of HDD Interfaces
	3rd	Study of HDD Interfaces

	4th	Study of HDD Interfaces
7th	1st	Connecting Hardware Components for assembly of computer
	2nd	Connecting Hardware Components for assembly of computer
	3rd	Connecting Hardware Components for assembly of computer
	4th	Connecting Hardware Components for assembly of computer
8th	1st	Connecting Hardware Components for assembly of computer
	2nd	Connecting Hardware Components for assembly of computer
	3rd	Setting up of CMOS
	4th	Setting up of CMOS
9th	1st	Setting up of CMOS
	2nd	Setting up of CMOS
	3rd	Setting up of CMOS
	4th	Setting up of CMOS
10th	1st	Installing OS
	2nd	Installing OS
	3rd	Installing OS
	4th	Installing OS
11th	1st	Installing OS
	2nd	Installing OS
	3rd	Installing different software
	4th	Installing different software

12th	1st	Installing different software
	2nd	Installing different software
	3rd	Installing different software
	4th	Installing different software
13th	1st	Study different BIOS setup and different faults
	2nd	Study different BIOS setup and different faults
	3rd	Study different BIOS setup and different faults
	4th	Study different BIOS setup and different faults
14th	1st	Study different BIOS setup and different faults
	2nd	Study different BIOS setup and different faults
	3rd	Perform trouble shooting in Desktop an
	4th	Perform trouble shooting in Desktop an
15th	1st	Perform trouble shooting in Desktop an
	2nd	Perform trouble shooting in Desktop an
	3rd	Perform trouble shooting in Desktop an
	4th	Perform trouble shooting in Desktop an
DISCIPLINE:CSE	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: Smt Naina Patel & Miss. Anuradha Maharana
SUBJECT: PYTHON LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Introduction, Brief History of Python, Python Versions
	2 nd	Installing Python

	3 rd	Environment Variables
	4 th	Executing Python from the Command Line
2 nd	1 st	IDLE
	2 nd	Editing Python Files
	3 rd	Python Documentation
	4 th	Getting Help
3 rd	1 st	Dynamic Types
	2 nd	Python Reserved Words
	3 rd	Naming Conventions
	4 th	Basic Syntax
4 th	1 st	Comments
	2 nd	String Values
	3 rd	The format Method
	4 th	String Operators
5 th	1 st	Numeric Data Types
	2 nd	Conversion Functions
	3 rd	Simple Output
	4 th	Simple Input
6 ^h	1 st	The % Method
	2 nd	The print Function
	3 rd	Indenting Requirements
	4 th	The if Statement
7 th	1 st	Relational and Logical Operators
	2 nd	Bit Wise Operators

	3 rd	The while Loop
	4 th	break and continue
8 th	1 st	The for Loop
	2 nd	Collections Introduction
	3 rd	Lists
	4 th	Tuples
9 th	1 st	Sets
	2 nd	Dictionaries
	3 rd	Sorting Dictionaries
	4 th	Copying Collections
10 th	1 st	Introduction ,Defining Your Own Functions
	2 nd	Parameters ,Function Documentation
	3 rd	Keyword and Optional Parameters
	4 th	Passing Collections to a Function
11 th	1 st	Variable Number of Arguments
	2 nd	Scope ,Functions - "First Class Citizens" Passing Functions to a Function
	3 rd	map ,filter
	4 th	Mapping Functions in a Dictionary
12 th	1 st	Lambda, Inner Functions
	2 nd	Closures
	3 rd	Modules,Standard Modules - sys
	4 th	Standard Modules - math
13 th	1 st	Standard Modules - time
	2 nd	The dir Function

	3 rd	Errors , Runtime Errors
	4 th	The Exception Model ,Exception Hierarchy ,Handling Multiple Exceptions, Raise , assert
14 th	1 st	Classes in Python ,Principles of Object Orientation,Creating Classes
	2 nd	Instance Methods,File Organization,Special Methods, Class Variables
	3 rd	Inheritance,Polymorphism
	4 th	Introduction,Simple Character Matches ,Special Characters,Character Classes
15 th	1 st	Quantifiers , The Dot Character ,Greedy Matches Grouping , Matching at Beginning or End
	2 nd	Match Objects ,Substituting
	3 rd	Splitting a String ,Compiling Regular Expressions
	4 th	Flags

Lesson plan of 2021-2022

(5TH SEMESTER IT)

DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SRI PABITRA KUMAR MAHARANA
SUBJECT: EM	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 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 Organisation
	4 TH	Functional Areas of Management a) Production management Functions, Activities
8 TH	1 ST	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.
DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: MISS ANURADHA MAHARANA
SUBJECT: IWT	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 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
DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SMT SUMITRA MAHAPATRA
SUBJECT:SE	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Program vs. Software product Emergence of Software Engineering.
	2 nd	Computer Systems Engineering Software Life Cycle Models
	3 rd	Classical Water fall model
	4 th	Iterative Water fall model
2 nd	1 st	Prototyping model
	2 nd	Evolutionary model

		Spiral model
	3 rd	Responsibility of Project Manager Project Planning
	4 th	Metrics for Project size estimation(LOC and FP)
3 rd	1 st	Project Estimation Techniques
	2 nd	COCOMO Models, Basic, Intermediate and complete
	3 rd	COCOMO Models, Basic, Intermediate and complete
	4 th	Scheduling
4 th	1 st	Organization and Team structure
	2 nd	Staffing
	3 rd	Risk Management
	4 th	Configuration Management
5 th	1 st	Requirements gathering and analysis Software Requirements Specification
	2 nd	Software Requirements Specification Contents of SRS
	3 rd	Characteristics of Good SRS
	4 th	Organization of SRS
6 ^h	1 st	Techniques for representing complexing logic
	2 nd	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	Developing DFD model of a system
	4 th	Shortcomings of DFD
8 th	1 st	Structured design
	2 nd	Principles of transformation of DFD to Structure Chart
	3 rd	Transform analysis and Transaction Analysis
	4 th	Design Review
9 th	1 st	Characteristics of Good Interface
	2 nd	Basic concepts of UID
	3 rd	Basic concepts of UID
	4 th	Types of User interfaces
10 th	1 st	Types of User interfaces
	2 nd	Components based GUI development
	3 rd	Components based GUI development
	4 th	Components based GUI development
11 th	1 st	Coding Code Review
	2 nd	Code walk through
	3 rd	Code inspections and software Documentation
	4 th	Testing

		Unit testing
12 th	1 st	Black Box Testing
	2 nd	Equivalence class partitioning and boundary value analysis
	3 rd	White Box Testing
	4 th	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	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	Integration Testing
	4 th	Integration Testing
14 th	1 st	Software Reliability
	2 nd	Different reliability metrics
	3 rd	Different reliability metrics
	4 th	Reliability growth modeling
15 th	1 st	Reliability growth modeling
	2 nd	Software quality
	3 rd	Software quality
	4 th	Software Quality Management System
DISCIPLINE: IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY:MISS SASMITA PANIGRAHI
SUBJECT:CGM	NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Applications of Computer Graphics & Multimedia Computer graphics in CAD Presentation Graphics Computer Art Entertainment Education & Training
	2 ND	Visualization Image Processing Graphic User Interface Multimedia Concepts.
	3 RD	Overview of Graphics Systems Graphics System
	4 TH	Raster Scan Display
2 ND	1 ST	Random Scan Display
	2 ND	Graphics Input Devices
	3 RD	Graphics Software
	4 TH	Graphics Output primitive

		Points & Lines DDA Line Drawing Algorithm
3 RD	1 ST	Bresenham's Line drawing Algorithm
	2 ND	Mid Point Circle algorithm
	3 RD	Filled Area Primitives
	4 TH	Boundary fill algorithm, Flood fill algorithm
4 TH	1 ST	Two Dimensional Geometric Transformations Translation Rotation Scaling
	2 ND	Reflection Shear
	3 RD	Matrix representation and Homogenous coordinate system Composite transformation
	4 TH	Two Dimensional Viewing Viewing pipeline Viewing coordinate reference frame
5 TH	1 ST	Window to view port coordinate transformation
	2 ND	Line clipping concept
	3 RD	Polygon clipping concept
	4 TH	Three Dimensional Object Representations Polygon surface
6 TH	1 ST	Polygon table
	2 ND	Plane equation
	3 RD	Plane equation
	4 TH	Polygon mesh
7 TH	1 ST	Quadric surfaces
	2 ND	Sphere, Ellipsoid
	3 RD	Spline representation
	4 TH	Bezier curves & Surfaces
8 TH	1 ST	B-Spline curves & surfaces.
	2 ND	Three Dimensional Geometric & Modeling Transformations Translation Rotation Scaling
	3 RD	Reflection Shear
	4 TH	Composite transformation
9 TH	1 ST	Modeling & Coordinate transformation
	2 ND	Three Dimensional Viewing Viewing pipeline
	3 RD	Viewing coordinates
	4 TH	Viewing coordinates
10 TH	1 ST	Parallel projection
	2 ND	Perspective projection
	3 RD	Concept of 3D clipping

	4 TH	Illumination Model & Surface Rendering Methods Different light sources used in 3D modeling
11 TH	1 ST	Basic Illumination model
	2 ND	Ambient light Diffuse reflection
	3 RD	Specular reflection
	4 TH	Introduction to Digital Audio Basics of Acoustics, Psychoacoustics
12 TH	1 ST	Musical sound and noise
	2 ND	Elementary sound system
	3 RD	Microphones, Amplifiers
	4 TH	Digital audio formats
13 TH	1 ST	Audio compression (LPC, Sub Band Encoding)
	2 ND	Introduction to Digital Image Vector and raster Graphics
	3 RD	Digital representation of image, colour, 16 bit, 24 bit colour depth Colour Characteristics-Hue, saturation, Luminance
	4 TH	Colour Palette Image formats-JPEG, BMP, TIFF, GIFF
14 TH	1 ST	Image evaluation Layers
	2 ND	Filters
	3 RD	Image manipulation-scaling, cropping, rotation
	4 TH	Introduction to Video Video in Multimedia
15 TH	1 ST	Basics of Motion-Video Sources of Motion-Video
	2 ND	Video formats, lines, frames, fields
	3 RD	TV Broadcast standards-PAL, NTSC, SECAM
	4 TH	MPEG Compression
DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY:SMT NAINA PATEL
SUBJECT: MC	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/20 TO DATE: 08/01/2022 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
DISCIPLINE: CSE/IT	SEMESTER:5th	NAME OF THE TEACHING FACULTY: Smt Reetanjali Panda & Smt. Sumitra Mahapatra
SUBJECT:WD LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	DATE	TOPICS TO BE COVERED AS PER LESSON PLAN
1 ST	1 ST	Developing portals using HTML Introduction to HTML 5 and CSS 3
	2 ND	Basic structure of HTML, designing a web page

	3RD	Basic structure of HTML, designing a web page
	4TH	Basic structure of HTML, designing a web page
2ND	1ST	inserting links images, horizontal rules, comments.
	2ND	inserting links images, horizontal rules, comments.
	3RD	inserting links images, horizontal rules, comments.
	4TH	inserting links images, horizontal rules, comments.
3RD	1ST	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	2ND	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	3RD	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	4TH	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
4TH	1ST	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	2ND	Formatting text, title, headings, colors, fonts, sizes, simple tables and forms. HTML tags, hyperlinks.
	3RD	Adding graphics and images, image maps, image files.
	4TH	Adding graphics and images, image maps, image files.
5TH	1ST	Adding graphics and images, image maps, image files.
	2ND	Adding graphics and images, image maps, image files.
	3RD	Adding graphics and images, image maps, image files.
	4TH	Using tables, forms, style sheets and frames.

6TH	1ST	Using tables, forms, style sheets and frames.
	2ND	Using tables, forms, style sheets and frames.
	3RD	Using tables, forms, style sheets and frames.
	4TH	Using tables, forms, style sheets and frames.
7TH	1ST	Floating of web site/pages
	2ND	Floating of web site/pages
	3RD	Floating of web site/pages
	4TH	Introduction to PHP: How PHP Works
8TH	1ST	Introduction to PHP: How PHP Works
	2ND	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	3RD	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	4TH	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
9TH	1ST	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	2ND	The php.ini File, Basic PHP Syntax, PHP variables, statements, operators
	3RD	decision making, loops, arrays, strings
	4TH	decision making, loops, arrays, strings
10TH	1ST	decision making, loops, arrays, strings
	2ND	decision making, loops, arrays, strings
	3RD	decision making, loops, arrays, strings
	4TH	forms, get and post methods, functions.
11TH	1ST	forms, get and post methods, functions.

	2ND	forms, get and post methods, functions.
	3RD	Introduction to cookies, storage of cookies at client side, Using information of cookies.
	4TH	Introduction to cookies, storage of cookies at client side, Using information of cookies.
12TH	1ST	Introduction to cookies, storage of cookies at client side, Using information of cookies.
	2ND	Creating single or multiple server side sessions.
	3RD	Creating single or multiple server side sessions.
	4TH	Creating single or multiple server side sessions.
13TH	1ST	Timeout in sessions, Event management in PHP
	2ND	Timeout in sessions, Event management in PHP
	3RD	Timeout in sessions, Event management in PHP
	4TH	Introduction to content management systems based on PHP.
14TH	1ST	Introduction to content management systems based on PHP.
	2ND	Introduction to MySQL,
	3RD	connecting to MySQL
	4TH	database, creation, insertion, deletion
15TH	1ST	database, creation, insertion, deletion
	2ND	database, creation, insertion, deletion
	3RD	retrieval of MySQL data using PHP.
	4TH	retrieval of MySQL data using PHP.
DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SASMITA PANIGRAHI
SUBJECT: CGM Lab	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 15/09/2022 TO DATE: 08/01/2022 NO.OF WEEKS:15

WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	Program to implement a line using slope intercept formula.
	2ND	Program to implement a line using slope intercept formula.
	3RD	Program to implement line using DDA algorithm.
	4TH	Program to implement line using DDA algorithm.
2ND	1ST	Program to implement line using Bresenham's algorithm
	2ND	Program to implement line using Bresenham's algorithm
	3RD	Program to implement circle using mid-point algorithm
	4TH	Program to implement circle using mid-point algorithm
3RD	1ST	Program to implement translation of a line and triangle.
	2ND	Program to implement translation of a line and triangle.
	3RD	Program to implement rotation of a line and triangle
	4TH	Program to implement rotation of a line and triangle
4TH	1ST	Program to implement scaling transformation
	2ND	Program to implement scaling transformation
	3RD	Write a program using function & Fill the Circle with Red color
	4TH	The concept of Photoshop
5TH	1ST	How to open a document. How to save the documents.
	2ND	How to open a document. How to save the documents.
	3RD	How to create a new document with the needed resolution.
	4TH	How to create a new document with the needed resolution.
6TH	1ST	How to select an area, copy and paste the selection.
	2ND	How to select an area, copy and paste the selection.
	3RD	How to save images for the web and their formats.
	4TH	How to save images for the web and their formats.
7TH	1ST	The use of layers and the history palette. How to print our document.
	2ND	The use of layers and the history palette. How to print our document.
	3RD	How to use the text editor. How to Crop Image in Photoshop & Sharpen Image
	4TH	How to use the text editor. How to Crop Image in

		Photoshop & Sharpen Image
8TH	1ST	Procedure to Removing & Adding Backgrounds images. Procedure to Convert Color Photos to Black & White.
	2ND	Procedure to Removing & Adding Backgrounds images. Procedure to Convert Color Photos to Black & White.
	3RD	Procedure to Removing & Adding Backgrounds images. Procedure to Convert Color Photos to Black & White.
	4TH	How to Create a Passport size images? How to Change Eye Color & Hair Color
9TH	1ST	How to Create a Passport size images? How to Change Eye Color & Hair Color
	2ND	How to Add Rain in Photoshop? How to make a GIFs File?
	3RD	How to Add Rain in Photoshop? How to make a GIFs File?
	4TH	Procedure to create an animation to represent the growing moon
10TH	1ST	Procedure to create an animation to represent the growing moon
	2ND	Procedure to create an animation to indicate a ball bouncing on steps.
	3RD	Procedure to create an animation to indicate a ball bouncing on steps
	4TH	Procedure to create an animation to indicate a ball bouncing on steps
11TH	1ST	Procedure to simulate movement of a cloud. Procedure to draw the fan blades and to give proper animation. Procedure to display the background given (filename: tulip.jpg) through your name.
	2ND	Procedure to simulate movement of a cloud. Procedure to draw the fan blades and to give proper animation. Procedure to display the background given (filename: tulip.jpg) through your name.
	3RD	Procedure to create an animation
	4TH	Procedure to create an animation
12TH	1ST	Procedure to design a visiting card containing at least one graphic and text information
	2ND	Procedure to design a visiting card containing at least one graphic and text information
	3RD	Procedure to design a visiting card containing at least one graphic and text information
	4TH	Procedure to design a visiting card containing at least one graphic and text information

13TH	1ST	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look
	2ND	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look
	3RD	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look
	4TH	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look.
14TH	1ST	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look.
	2ND	Procedure to prepare a cover page for the book in your subject area. Plan your own design. Procedure to adjust the brightness and contrast of the picture so that it gives an elegant look.
	3RD	Procedure to position the picture preferably on a plain background of a colour of your choice - positioning includes rotation and scaling
	4TH	Procedure to position the picture preferably on a plain background of a colour of your choice - positioning includes rotation and scaling
15TH	1ST	Procedure to position the picture preferably on a plain background of a colour of your choice - positioning includes rotation and scaling
	2ND	Procedure to type a word and apply the effects shadow embosses
	3RD	Procedure to type a word and apply the effects shadow embosses
	4TH	Procedure to type a word and apply the effects shadow embosses
DISCIPLINE:CSE/IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: Smt Naina Patel & Miss. Anuradha Maharana

SUBJECT: PYTHON LAB	NO.OF DAYS/PER WEEK CLASS ALLOTTED:4	SEMESTER FROM DATE: 01/10/2021 TO DATE: 08/01/2022 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Introduction, Brief History of Python, Python Versions
	2 nd	Installing Python
	3 rd	Environment Variables
	4 th	Executing Python from the Command Line
2 nd	1 st	IDLE
	2 nd	Editing Python Files
	3 rd	Python Documentation
	4 th	Getting Help
3 rd	1 st	Dynamic Types
	2 nd	Python Reserved Words
	3 rd	Naming Conventions
	4 th	Basic Syntax
4 th	1 st	Comments
	2 nd	String Values
	3 rd	The format Method
	4 th	String Operators
5 th	1 st	Numeric Data Types
	2 nd	Conversion Functions
	3 rd	Simple Output
	4 th	Simple Input

6 ^h	1 st	The % Method
	2 nd	The print Function
	3 rd	Indenting Requirements
	4 th	The if Statement
7 th	1 st	Relational and Logical Operators
	2 nd	Bit Wise Operators
	3 rd	The while Loop
	4 th	break and continue
8 th	1 st	The for Loop
	2 nd	Collections Introduction
	3 rd	Lists
	4 th	Tuples
9 th	1 st	Sets
	2 nd	Dictionaries
	3 rd	Sorting Dictionaries
	4 th	Copying Collections
10 th	1 st	Introduction ,Defining Your Own Functions
	2 nd	Parameters ,Function Documentation
	3 rd	Keyword and Optional Parameters
	4 th	Passing Collections to a Function
11 th	1 st	Variable Number of Arguments
	2 nd	Scope ,Functions - "First Class Citizens" Passing Functions to a Function
	3 rd	map ,filter
	4 th	Mapping Functions in a Dictionary

12 th	1 st	Lambda, Inner Functions
	2 nd	Closures
	3 rd	Modules, Standard Modules - sys
	4 th	Standard Modules - math
13 th	1 st	Standard Modules - time
	2 nd	The dir Function
	3 rd	Errors , Runtime Errors
	4 th	The Exception Model ,Exception Hierarchy ,Handling Multiple Exceptions, Raise , assert
14 th	1 st	Classes in Python ,Principles of Object Orientation,Creating Classes
	2 nd	Instance Methods,File Organization,Special Methods, Class Variables
	3 rd	Inheritance,Polymorphism
	4 th	Introduction,Simple Character Matches ,Special Characters,Character Classes
15 th	1 st	Quantifiers , The Dot Character ,Greedy Matches Grouping , Matching at Beginning or End
	2 nd	Match Objects ,Substituting
	3 rd	Splitting a String ,Compiling Regular Expressions
	4 th	Flags