Lesson plan of 2023-2024

(5TH SEMESTER IT)

DISCIPLINE:IT	SEMESTER:5TH	NAME OF THE TEACHING FACULTY: SASMITA PANIGRAHI
SUBJECT: EMST	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	**Entrepreneurship** Concept /Meaning of Entrepreneurship
	2ND	Need of Entrepreneurship
	3RD	Characteristics, Qualities and Types of entrepreneur, Functions
	4TH	Barriers in entrepreneurship
2ND	1ST	Entrepreneurs vrs. Manager
	2ND	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	3RD	Types of Industries, Concept of Start-ups
	4TH	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
3RD	1ST	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	2ND	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3RD	**Market Survey and Opportunity Identification (Business Planning)** Business Planning
	4TH	SSI, Ancillary Units
4TH	1ST	Tiny Units, Service sector Units
	2ND	Time schedule Plan
	3RD	Agencies to be contacted for Project Implementation
	4TH	Assessment of Demand and supply and Potential areas of Growth
5TH	1ST	Identifying Business Opportunity
	2ND	Final Product selection
	3RD	**Project report Preparation** Preliminary project report
	4TH	Detailed project report
6TH	1ST	Techno economic Feasibility
	2ND	Project Viability

	3RD	**Management Principles** Definitions of management
	4TH	Principles of management
7TH	1ST	Functions of management (planning, 2rganizing, staffing, directing and controlling etc.)
	2ND	Functions of management (planning, 2rganizing, staffing, directing and controlling etc.)
	3RD	Level of Management in an Organisation
	4TH	**Functional Areas of Management** W. Production management Functions, Activities
8TH	1ST	Productivity Quality control Production Planning and control
	2ND	b) Inventory Management Need for Inventory management
	3RD	Models/Techniques of Inventory management
	4TH	c) Financial Management Functions of Financial management Management of Working capital Costing (only concept)
9TH	1ST	Break even Analysis Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
	2ND	d) Marketing Management Concept of Marketing and Marketing Management
	3RD	Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion)
	4TH	e) Human Resource Management Functions of Personnel Management Manpower Planning, Recruitment,
10TH	1ST	Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	2ND	**Leadership and Motivation** W. Leadership Definition and Need/Importance
	3RD	Qualities and functions of a leader Manager Vs Leader
	4TH	Style of Leadership (Autocratic, Democratic, Participative)
11TH	1ST	b) Motivation Definition and characteristics Importance of motivation
	2ND	Factors affecting motivation Theories of motivation (Maslow) Methods of Improving Motivation

	3RD	Importance of Communication in Business Types and Barriers of Communication
	4TH	**Work Culture, TQM & Safety** Human relationship and Performance in Organization
12TH	1ST	Relations with Peers, Superiors and Subordinates
	2ND	TQM concepts: Quality Policy, Quality Management, Quality system
	3RD	Accidents and Safety, Cause, preventive measures
	4TH	General Safety Rules , Personal Protection Equipment(PPE)
13TH	1ST	**Legislation** a) Intellectual Property Rights(IPR),
	2ND	Patents, Trademarks, Copyrights
	3RD	b) Features of Factories Act 1948 with Amendment (only salient points)
	4TH	b) Features of Factories Act 1948 with Amendment (only salient points)
14TH	1ST	c) Features of Payment of Wages Act 1936 (only salient points)
	2ND	c) Features of Payment of Wages Act 1936 (only salient points)
`	3RD	. **Smart Technology** Concept of IOT, How IOT works
	4TH	Components of IOT, Characteristics of IOT
15TH	1ST	Categories of IOT
	2ND	Applications of IOT- Smart Cities, Smart Transportation,
	3RD	Smart Home, Smart Healthcare, Smart Industry,
	4TH	Smart Agriculture, Smart Energy Management etc.
DISCIPLINE:IT	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY: NAYANA PATEL**
SUBJECT: IWT	**NO.OF DAYS/PER WEEK CLASS ALLOTTED: 4**	**SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23** **NO.OF WEEKS:15**
WEEK	**CLASS DAY**	**THEORY/PRACTICAL TOPICS**
1ST	1ST	**Internet Basics** Computer network
	2ND	Concept of Internet, Intranet
	3RD	Modem
	4TH	IP Address, Internet Domains
2ND	1ST	CIDR Notation, ISP

	2ND	TCP/IP
	3RD	**Internet Connectivity & WWW** Introduction to connectivity
	4TH	Medium and methods of connectivity, ISDN, VSAT, RF Link
3RD	1ST	Working of Internet
	2ND	Introduction to WWW
	3RD	Application Level Protocol
	4TH	Web Browser, URL, Hyper text
4TH	1ST	Hyperlinks, Hypermedia
	2ND	Search Engine, Proxy sever
	3RD	CGI, URI, Dreamweaver
	4TH	**Internet Security** Introduction to security
5TH	1ST	Types of security
	2ND	Authentication & Authorization
	3RD	Firewalls
	4TH	Encryption & Decryption
6TH	1ST	SSL
	2ND	**Internet Application** E-Mail, Email protocols
	3RD	Telnet, FTP
	4TH	Newsgroup
7TH	1ST	Chartroom Internet Relay Chat
	2ND	Video Conferencing
	3RD	E-Commerce
	4TH	**Website Classifications** Static Websites
8TH	1ST	Dynamic websites Web portals
	2ND	Social Networking Sites RSS Feed, Blog, Netiquette
	3RD	**Development of Portals Using HTML** Design a webpage, Good Web Design
	4TH	HTML Introduction
9TH	1ST	HTML Tags, Anchor Tag
	2ND	Table Tag
	3RD	HTML Frames
	4TH	Forms
10TH	1ST	Disadvantages of HTML
	2ND	Separating style from structure with style sheets
	3RD	CSS Rules, Types of CSS

	4TH	**Client side Scripting with JavaScript** Introduction to script, Client side Scripting, Types of Scripting
11TH	1ST	Variables in JavaScript, Built-in Function Arrays in JavaScript, Conditional statements, Loops
	2ND	Document Object Model Creating Functions, objects in JavaScript
		Working with Cookies
	4TH	Connecting database using JavaScript in HTML Page
12TH	1ST	Working with Browser, validating and submitting Forms
	2ND	**Server Side Scripting** Introduction to server side Scripting
	3RD	Components of SSS Difference between CSS and SSS
	4TH	Server side Scripting method
13TH	1ST	JavaScript on server
	2ND	SQL
	3RD	**Server Side Programming using PHP** Introduction to PHP
	4TH	Variables, string
14TH	1ST	operator types
	2ND	operator types
`	3RD	Conditional statement
	4TH	Loops
15TH	1ST	Array
	2ND	GET and POST Method
	3RD	GET and POST Method
	4TH	Sessions
DISCIPLINE:IT	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY: SUJATA KUMARI ACHARYA**
SUBJECT:SE	**NO.OF DAYS/PER WEEK CLASS ALLOTTED:4**	**SEMESTER FROM DATE: 15/09/2022 TO DATE: 22/12/2022** **NO.OF WEEKS:15**
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1st	1st	1.1 Program vs. Software product 1.2Emergence of Software Engineering.
	2nd	1.3 Computer Systems Engineering 1.4Software Life Cycle Models
	3rd	1.4.1Classical Water fall model
	4th	1.4.2 Iterative Water fall model
2nd	1st	1.4.3Prototyping model
	2nd	1.4.4 Evolutionary model 1.4.5 Spiral model

	3rd	2.1 Responsibility of Project Manager 2.2 Project Planning
	4th	2.3 Metrics for Project size estimation(LOC and FP)
3rd	1st	2.4 Project Estimation Techniques
	2nd	2.5 COCOMO Models, Basic, Intermediate and complete
	3rd	2.5 COCOMO Models, Basic, Intermediate and complete
	4th	2.6 Scheduling
4th	1st	2.7 Organization and Team structure
	2nd	2.8 Staffing
	3rd	2.9 Risk Management
	4th	2.10 Configuration Management
5th	1st	3.1 Requirements gathering and analysis 3.2 Software Requirements Specification
	2nd	3.2 Software Requirements Specification 3.2.1 Contents of SRS
	3rd	3.2.2 Characteristics of Good SRS
	4th	3.2.3 Organization of SRS
6h	1st	3.2.4 Techniques for representing complexing logic
	2nd	3.2.4 Techniques for representing complexing logic
	3rd	4.1 What is a Good S/W design 4.2Cohesion and coupling
	4th	4.3 Neat arrangement 4.4S/W Design approaches
7th	1st	4.5 Structured analysis 4.6 Data Flow Diagrams
	2nd	4.7Symbols used in DFD 4.8Designing DFD
	3rd	4.9Developing DFD model of a system
	4th	4.10Shortcomings of DFD
8th	1st	4.11 Structured design
	2nd	4.12Principles of transformation of DFD to Structure Chart
	3rd	4.13Transform analysis and Transaction Analysis
	4th	4.14 Design Review
9th	1st	5.1 Characteristics of Good Interface
	2nd	5.2 Basic concepts of UID
	3rd	5.2 Basic concepts of UID
	4th	5.3Types of User interfaces
10th	1st	5.3Types of User interfaces
	2nd	5.4 Components based GUI development
	3rd	5.4 Components based GUI development
	4th	5.4 Components based GUI development
11th	1st	6.1 Coding 6.2.Code Review

	2nd	6.2.1 Code walk through
	3rd	6.2.2 Code inspections and software Documentation
	4th	6.3 Testing 6.4Unit testing
12th	1st	6.5 Black Box Testing
	2nd	6.6 Equivalence class partitioning and boundary value analysis
	3rd	6.7 White Box Testing
	4th	6.8Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage,cyclomatic complexity data flow based testing and mutation testing
13th	1st	6.8Different White Box methodologies statement coverage branch coverage, condition coverage, path coverage,cyclomatic complexity data flow based testing and mutation testing
	2nd	6.9Debugging approaches 6.10Debugging guidelines
	3rd	6.11 Integration Testing
	4th	6.11 Integration Testing
14th	1st	7.1 Software Reliability
	2nd	7.2 Different reliability metrics
	3rd	7.2 Different reliability metrics
	4th	7.3 Reliability growth modeling
15th	1st	7.3 Reliability growth modeling
	2nd	7.4 Software quality
	3rd	7.4 Software quality
	4th	7.5 Software Quality Management System
DISCIPLINE:IT	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY: SASMITA PANIGRAHI**
SUBJECT:CGM	**NO.OF DAYS/PER WEEK CLASS ALLOTTED:4**	**SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23** **NO.OF WEEKS:15**
WEEK	**CLASS DAY**	**THEORY/PRACTICAL TOPICS**
1st	1st	W.4 Need of Management in Computer Centre
	2nd	1.2 Types of Jobs carried out in computers in an organization
	3rd	1.2 Types of Jobs carried out in computers in an organization
	4th	1.3 Duties and responsibilities of personnel involved
2nd	1st	1.3 Duties and responsibilities of personnel involved
	2nd	1.4 Need of Training of Staff
	3rd	1.4 Need of Training of Staff
	4th	1.5 Idea about Various makes of Computers.
3rd	1st	2.1 Layouts of computer centre

	2nd	2.1 Layouts of computer centre
	3rd	2.2 False Roofing, Air Conditioning, Dust Proofing
	4th	2.2 False Roofing, Air Conditioning, Dust Proofing
4th	1st	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	2nd	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	3rd	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
	4th	2.3 Power Conditioning equipments like CVT, UPS, Isolation Circuits with Principles of functioning
5th	1st	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)
	2nd	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)
	3rd	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)
	4th	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)
6h	1st	3.2 Mother architecture and Block Diagram
	2nd	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	3rd	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
	4th	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)
7th	1st	3.3 Processors (Core2 Duo Processor, Quad Core Processor, Core i3,i5,i7 series, AMD A10 series, Xeon Processor)

	2nd	3.4 Chip Sets
	3rd	3.5 Bus Standards: PCI, AGP, USB etc.
	4th	3.6 Colour Codes for Devices/ports
8th	1st	4.1 Primary and secondary Memory
	2nd	4.2 Memory speed , Access time
	3rd	4.3 Hard Disk, Construction, Working Principles
	4th	4.4 File System, Formatting, Partitioning
9th	1st	4.5 Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	2nd	4.5 Removable Storage and Special devices and their working principles(CD, DVD, External drives, Memory stick, USB flash drive, Solid state drive)
	3rd	4.6 Key Board(Interfacing, USB, Wireless, Types of keys, Keyboard Matrix, Key Bouncing)
	4th	4.7 Mouse Interfacing
10th	1st	4.8 Printers(Types, operation and Trouble shooting)
	2nd	4.8 Printers(Types, operation and Trouble shooting)
	3rd	4.9 Scanners(Types, operation and Trouble Shooting)
	4th	4.9 Scanners(Types, operation and Trouble Shooting)
11th	1st	5.1 Displays and Graphics Cards
	2nd	5.2 LCD,PLASMA,TFT,LED Displays
	3rd	5.3 SMPS (Basic Principles and operations, O/P voltage)
	4th	5.4 BIOS(Functions, setups, types of BIOS)
12th	1st	5.5 POST(Operation, Faults related to Hardware)
	2nd	6.1 Assembly of Components of Desktop Computers
	3rd	6.2 Configuring Laptops and Power settings
	4th	6.3 Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
13th	1st	6.3 Laptop Components(Adapter , Battery, Basic problems, RAM types, CPU types, Laptop Motherboard, block diagram, Laptop Keyboard)
	2nd	6.4 Formatting , Partitioning and installation of OS
	3rd	6.5 Trouble shooting of Common ly faced problems in Desktops and Laptops
	4th	6.6 Basic Maintenance concepts(Preventive, Corrective, online)
14th	1st	6.7 Diagnostic programs and tools

	2nd	6.8 Methods of Trouble shooting(symptom observation, analysis, diagnosis, Correction)
	3rd	6.9 Up gradation of system and application software 6.10 Virus concepts, Antivirus
	4th	7.1 Network Interface card
15th	1st	7.2 Networking interconnecting devices such as hub, switch, Router
	2nd	7.2 Networking interconnecting devices such as hub, switch, Router
	3rd	7.3 Types of Network cable
	4th	7.4 Types of Network connector
DISCIPLINE:CSE	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY:NAYANA PATEL**
SUBJECT: MC	**NO.OF DAYS/PER WEEK CLASS ALLOTTED:4**	**SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23** **NO.OF WEEKS:15**
WEEK	**CLASS DAY**	**THEORY TOPICS**
1ST	1ST	Networks,
	2ND	Wireless Networks
	3RD	Mobile Computing
	4TH	Mobile Computing Characteristics
2ND	1ST	Application of Mobile Computing
	2ND	Application of Mobile Computing
	3RD	**Introduction to Mobile Development Frameworks** C/S architecture
	4TH	n-tier architecture
3RD	1ST	n-tier architecture and www
	2ND	n-tier architecture and www
	3RD	Peer-to Peer architecture
	4TH	Mobile agent architecture
4TH	1ST	**Introduction to Wireless Transmission** Signals
	2ND	Period, Frequency and Bandwidth. Antennas
	3RD	Signal Propagation
	4TH	Multiplexing
5TH	1ST	Modulation
	2ND	Spread Spectrum Cellular System
	3RD	**Introduction to Medium Access Control** Hidden/ Exposed Terminals
	4TH	The basic Access Method

6TH	1ST	The basic Access Method
	2ND	Near / Far Terminals, SDMA
	3RD	FDMA,TDMA
	4TH	CDMA
7TH	1ST	**WIRELESS LANS** Wireless LAN and communication, Infrared, Radio Frequency
	2ND	IR Advantages and Disadvantages RF Advantages and Disadvantages Wireless Network Architecture Logical
	3RD	Types of WLAN , IEEE802.11,MAC layer
	4TH	Security, Synchronization
8TH	1ST	Power Management, Roaming
	2ND	Bluetooth Overview
	3RD	**Introduction to Ubiquitous Wireless Communication**
	4TH	Scenario of Mobile Communication
9TH	1ST	Mobile Communication Generations 1G to 3G
	2ND	Mobile Communication Generations 1G to 3G
	3RD	3rd Generation Mobile Communication Network
	4TH	Universal Mobile telecommunication System (UMTS
10TH	1ST	**Overview Mobile IP** Working with mobile IP
	2ND	Mobile IP Entities, Mobility Agents
	3RD	Components of Mobile IP Mobile Ipv6 Features
	4TH	Mobile Ipv6 Address Types
11TH	1ST	Mobile Ipv6 Address Scope.
	2ND	Mobile IP Operation.
	3RD	**Mobile Computing** WWW architecture for Mobile computing Need of WAP Benefits of WAP
	4TH	Examples of WAP, WAP- Architecture
12TH	1ST	WML
	2ND	WAP Push architecture
	3RD	Push-Pull based data acquisition
	4TH	I-mode , WAP 2.x
13TH	1ST	**Wireless Telecomm Networks** GSM
	2ND	GPRS

	3RD	IS-95
	4TH	CDMA-2000
14TH	1ST	W-CDMA
	2ND	Wireless Sensor Networks
	3RD	**Messaging Services** Short Message Services (SMS)
	4TH	Short Message Services (SMS)
15TH	1ST	Multimedia Message Services (MMS)
	2ND	Multimedia Message Services (MMS)
	3RD	Multimedia transmission over wireless
	4TH	Multimedia transmission over wireless
DISCIPLINE: **IT**	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY: SUMITRA MAHAPATRA**
SUBJECT:WD LAB	**NO.OF DAYS/PER WEEK CLASS ALLOTTED:4**	**SEMESTER FROM DATE: 01/08/23 TO DATE: 30/11/23** **NO.OF WEEKS:15**
WEEK	**DATE**	TOPICS TO BE COVERED AS PER LESSON PLAN
1ST	**1ST**	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 liks images, horizontal rules, comments.
	2ND	inserting liks images, horizontal rules, comments.
	3RD	inserting liks images, horizontal rules, comments.
	4TH	inserting liks 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: 01/08/23 TO DATE: 30/11/23** **NO.OF WEEKS:15**
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1st	1st	1. Study of layout of Mother Board and different components
	2nd	1. Study of layout of Mother Board and different components
	3rd	1. Study of layout of Mother Board and different components
	4th	1. Study of layout of Mother Board and different components

2nd	1st	1. Study of layout of Mother Board and different components
	2nd	1. Study of layout of Mother Board and different components
	3rd	2. Study of Expansion slots, Bus structure and ports with color codes
	4th	2. Study of Expansion slots, Bus structure and ports with color codes
3rd	1st	2. Study of Expansion slots, Bus structure and ports with color codes
	2nd	2. Study of Expansion slots, Bus structure and ports with color codes
	3rd	2. Study of Expansion slots, Bus structure and ports with color codes
	4th	2. Study of Expansion slots, Bus structure and ports with color codes
4th	1st	3. Study of functioning of SMPS with O/P voltage and connectors
	2nd	3. Study of functioning of SMPS with O/P voltage and connectors

	3rd	3. Study of functioning of SMPS with O/P voltage and connectors
	4th	3. Study of functioning of SMPS with O/P voltage and connectors
5th	1st	3. Study of functioning of SMPS with O/P voltage and connectors
	2nd	3. Study of functioning of SMPS with O/P voltage and connectors
	3rd	4. Study of HDD Interfaces
	4th	4. Study of HDD Interfaces
6h	1st	4. Study of HDD Interfaces
	2nd	4. Study of HDD Interfaces
	3rd	4. Study of HDD Interfaces
	4th	4. Study of HDD Interfaces
7th	1st	5. Connecting Hardware Components for assembly of computer
	2nd	5. Connecting Hardware Components for assembly of computer
	3rd	5. Connecting Hardware Components for assembly of computer
	4th	5. Connecting Hardware Components for assembly of computer
8th	1st	5. Connecting Hardware Components for assembly of computer
	2nd	5. Connecting Hardware Components for assembly of computer
	3rd	6. Setting up of CMOS
	4th	6. Setting up of CMOS
9th	1st	6. Setting up of CMOS
	2nd	6. Setting up of CMOS
	3rd	6. Setting up of CMOS
	4th	6. Setting up of CMOS
10th	1st	7. Installing OS
	2nd	7. Installing OS
	3rd	7. Installing OS
	4th	7. Installing OS
11th	1st	7. Installing OS
	2nd	7. Installing OS
	3rd	8. Installing different software
	4th	8. Installing different software
12th	1st	8. Installing different software
	2nd	8. Installing different software

	3rd	8. Installing different software
	4th	8. Installing different software
13th	1st	9. Study different BIOS setup and different faults
	2nd	9. Study different BIOS setup and different faults
	3rd	9. Study different BIOS setup and different faults
	4th	9. Study different BIOS setup and different faults
14th	1st	9. Study different BIOS setup and different faults
	2nd	9. Study different BIOS setup and different faults
	3rd	10. Perform trouble shooting in Desktop
	4th	10. Perform trouble shooting in Desktop
15th	1st	10. Perform trouble shooting in Desktop
	2nd	10. Perform trouble shooting in Desktop
	3rd	10. Perform trouble shooting in Desktop
	4th	10. Perform trouble shooting in Desktop
DISCIPLINE:IT	**SEMESTER:5TH**	**NAME OF THE TEACHING FACULTY: BARSHA SUBUDHI RAY**
SUBJECT: PYTHON LAB	**NO.OF DAYS/PER WEEK** **CLASS ALLOTTED:4**	**SEMESTER FROM DATE: 01/08/23 TO DATE:30/11/23** **NO.OF WEEKS:15**
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1st	1st	Introduction, Brief History of Python, Python Versions
	2nd	Installing Python
	3rd	Environment Variables
	4th	Executing Python from the Command Line
2nd	1st	IDLE
	2nd	Editing Python Files
	3rd	Python Documentation
	4th	Getting Help

3rd	1st	Dynamic Types
	2nd	Python Reserved Words
	3rd	Naming Conventions
	4th	Basic Syntax
4th	1st	Comments
	2nd	String Values
	3rd	The format Method
	4th	String Operators
5th	1st	Numeric Data Types
	2nd	Conversion Functions
	3rd	Simple Output
	4th	Simple Input
6h	1st	The % Method
	2nd	The print Function
	3rd	Indenting Requirements
	4th	The if Statement
7th	1st	Relational and Logical Operators
	2nd	Bit Wise Operators
	3rd	The while Loop
	4th	break and continue
8th	1st	The for Loop
	2nd	Collections Introduction
	3rd	Lists
	4th	Tuples

9th	1st	Sets
	2nd	Dictionaries
	3rd	Sorting Dictionaries
	4th	Copying Collections
10th	1st	Introduction ,Defining Your Own Functions
	2nd	Parameters ,Function Documentation
	3rd	Keyword and Optional Parameters
	4th	Passing Collections to a Function
11th	1st	Variable Number of Arguments
	2nd	Scope ,Functions - "First Class Citizens" Passing Functions to a Function
	3rd	map ,filter
	4th	Mapping Functions in a Dictionary
12th	1st	Lambda, Inner Functions
	2nd	Closures
	3rd	Modules,Standard Modules - sys
	4th	Standard Modules - math
13th	1st	Standard Modules - time
	2nd	The dir Function
	3rd	Errors , Runtime Errors
	4th	The Exception Model ,Exception Hierarchy ,Handling Multiple Exceptions, Raise , assert
14th	1st	Classes in Python ,Principles of Object Orientation,Creating Classes
	2nd	Instance Methods,File Organization,Special Methods, Class Variables
	3rd	Inheritance,Polymorphism
	4th	Introduction,Simple Character Matches ,Special Characters,Character Classes

15th	1st	Quantifiers , The Dot Character ,Greedy Matches Grouping , Matching at Beginning or End
	2nd	Match Objects ,Substituting
	3rd	Splitting a String ,Compiling Regular Expressions
	4th	Flags