DISCIPLINE: IT	SEMESTER: 4TH	NAME OF THE TEACHING FACULTY: JHILI SETHY
SUBJECT: OSSP	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Objectives and Explain functions of operating system.
	2 ND	Evolution of Operating system
	3 RD	Structure of operating system
	4 TH	Process concept, process control.
2 ND	1 ST	interacting processes, inter process messages.
	2 ND	Implementation issues of Processes.
	3 RD	Process scheduling.
	4 TH	job scheduling.
3 RD	1 ST	Process synchronization,
	2 ND	semaphore.
	3 RD	Principle of concurrency
	4 TH	types of scheduling.
4 TH	1 ST	First come first serve, shortest job first, Round robin, SRTF, priority scheduling.
	2 ND	Memory allocation Techniques.
	3 RD	Contiguous memory allocation.
	4 TH	Single partition allocation method, Multiple partition allocation method.
5 TH	1 ST	non contiguous memory allocation
	2 ND	Paging, Segmentation ,segmentation with paging.
	3 RD	Swapping
	4 TH	virtual memory using paging,
6 TH	1 ST	Demand paging,
	2 ND	page fault handling.
	3 RD	Techniques for Device Management
	4 TH	Dedicated device Management.
7 TH	1 ST	Shared management
	2 ND	virtual. management
	3 RD	Device allocation considerations I/O traffic control.
	4 TH	I/O Schedule
8 TH	1 ST	I/O Device handlers.
	2 ND	SPOOLING.
	3 RD	Concept of deadlock.
	4 TH	Mutual exclusion ,No preemption
9 TH	1 st	Hold and wait, circular wait.
	2 ND	System Model
	3 RD	Dead Lock Detection.
	4 TH	Resources allocation Graph.

10 TH	1 ST	Methods of Deadlock handling
	2 ND	Recovery & Prevention,
	3 RD	Explain Bankers Algorithm,
	4 TH	Safety Algorithm.
11 TH	1 ST	File organization
	2 ND	Directory & file structure,
	3 RD	sharing of files
	4 TH	File access methods,
12 TH	1 ST	Direct access method, sequestial access
12	1	method.
	2 ND	Indexing access method.
	3 RD	file systems,
	4 TH	reliability
13 TH	1 ST	Allocation of disk space
	2 ND	File protection,
	3 RD	secondary storage management
	4 TH	Concept of system programming
14 TH	1 ST	show difference from Application Complier:
	2 ND	Compiler
	3 RD	functions of compiler.
	4 TH	Brief description of interpreter
15™	1 st	Description of compiler.
	2 ND	Compare compiler and interpreter
	3 RD	Seven phases of compiler
	4 TH	brief description of each phase.
DISCIPLINE: IT	SEMESTER : 4TH	NAME OF THE TEACHING FACULTY: ABHIRAM
		BEHERA
SUBJECT: DCCN		
	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 14/02/2023 TO
	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 4	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023
	-	
WEEK	CLASS ALLOTTED : 4	DATE: 23/05/2023 NO.OF WEEKS:15
WEEK 1 st	-	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS
	CLASS ALLOTTED : 4	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication
	CLASS ALLOTTED : 4 CLASS DAY 1 ST	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks
	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture
	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards
1 st	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI
1 st	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI
1 ^{5T}	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP
1 ^{5T}	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP TCP/IP
1 ST	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP TCP/IP 2.1 Data transmission Concepts and Terminology
1 ST	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 1 ST 2 ND 3 RD 2 ND 3 RD 2 ND 3 RD 2 ND	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP 7.1 Data transmission Concepts and Terminology 2.2 Analog and Digital Data transmission
1 st 2 ND	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP 7.CP/IP 2.1 Data transmission Concepts and Terminology 2.2 Analog and Digital Data transmission 2.3 Transmission impairments, Channel capacity
1 st 2 ND	CLASS ALLOTTED : 4 CLASS DAY 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD	DATE: 23/05/2023 NO.OF WEEKS:15 THEORY/PRACTICAL TOPICS 1.1 Data Communication 1.2 Networks 1.3 Protocol & Architecture Standards OSI OSI OSI TCP/IP 7.1 Data transmission Concepts and Terminology 2.2 Analog and Digital Data transmission

	3 RD	Wireless Transmission
	4 TH	Wireless Transmission
5 [™]	1 st	3.1 Data encoding,
	2 ND	3.2 Digital data digital signals,
	3 RD	3.2 Digital data digital signals,
	4 TH	3.3 Digital data analog signals
6 [™]	1 ST	3.3 Digital data analog signals
-	2 ND	3.4 Analog data digital signals
	3 RD	3.5 Analog data analog signals
	4 TH	3.5 Analog data analog signals
7 [™]	1 ST	4.1 Asynchronous and Synchronous Transmission
•	2 ND	4.1 Error Detection
	3 RD	4.3 Line configuration
	4 TH	4.4 Flow Control,
8 TH	1 ST	4.5 Error Control
0	2 ND	4.6 Multiplexing
	3 RD	4.7 FDM synchronous TDM
	3	4.8 Statistical TDM
9 TH	1 ST	5.1 Circuit Switching networks
5	2 ND	5.2 Packet Switching principles
	3 RD	5.3 X.25
	3	5.4 Routing in Packet switching
10 TH	1 ST	5.4 Routing in Packet switching
10	2 ND	5.5 Congestion
	3 RD	5.6 Effects of congestion, congestion control
	3	5.7 Traffic Management
11 TH	1 ST	5.8 Congestion Control in Packet Switching Network.
	2 ND	5.8 Congestion Control in Packet Switching Network.
	2 3 RD	6.1. Topology and Transmission Media
	3	6.1. Topology and Transmission Media
12 TH	1 ST	6.2 LAN protocol architecture
12	2 ND	6.3. Medium Access control
	3 RD	6.4 Bridges, Hub, Switch
	5 4™	6.4 Bridges, Hub, Switch
13 TH	1 ST	6.5 Ethernet (CSMA/CD)
15	2 ND	Fiber Channel
	2 3 RD	6.6 Wireless LAN Technology
	5 4™	
14 TH	1 ST	6.6 Wireless LAN Technology 7.1 TCP/IP Protocol Suite
14	2 ND	7.2 Basic Protocol functions
	3 RD	
		7.3 Principles of Internetworking
	4 TH	7.3 Principles of Internetworking
15 [™]	1 ST	7.3 Internet Protocol operations
	2 ND	7.3 Internet Protocol operations
	3 RD	7.4 Internet Protocol
	4 TH	7.4 Internet Protocol

DISCIPLINE: IT	SEMESTER:4TH	NAME OF THE TEACHING FACULTY: Nayana Patel
SUBJECT: M&M	NO.OF DAYS/PER WEEK CLASS ALLOTTED : 5	SEMESTER FROM DATE: 14/02/2023 TO DATE: 23/05/2023 NO.OF WEEKS : 15
WEEK	CLASS DAY	THEORY TOPICS
1 st	1 st	Introduction to Microprocessor and Microcomputer & distinguish between them.
	2 ND	Concept of Address bus, data bus, control bus & System Bus.
	3 RD	General Bus structure.
	4 TH	Block diagram.
	5 th	Basic Architecture of 8085 (8 bit) Microprocessor
2 ND	1 ST	Basic Architecture of 8085 (8 bit) Microprocessor
_	2 ND	Signal Description (Pin diagram) of 8085
		Microprocessor
	3 RD	Signal Description (Pin diagram) of 8085
		Microprocessor
	4 TH	Signal Description (Pin diagram) of 8085
		Microprocessor
	5 th	Register Organizations, Distinguish between SPR &
		GPR, Timing & Control, Module,
3 RD	1 ST	Register Organizations, Distinguish between SPR &
		GPR, Timing & Control, Module,
	2 ND	Stack, Stack pointer & Stack top
	3 RD	Stack, Stack pointer & Stack top
	4 TH	Interrupts:-8085 Interrupts
	5 th	Interrupts:-8085 Interrupts, Masking of Interrupt(SIM,RIM)
4 TH	1 ST	Addressing data & Differentiate between one-byte, two-byte & three-byte instructions with examples.
	2 ND	Addressing modes in instructions with suitable examples.
	3 RD	Instruction Set of 8085(Data Transfer, Arithmetic,
	4 TH	Logical, Branching, Stack& I/O , Machine Control)
	5 th	Simple Addition & Subtraction
5 TH	1 ST	Logic Operations (AND, OR, Complement 1's & 2's) & Masking of bits
	2 ND	Counters & Time delay (Single Register, Register Pair, More than Two Register
	3 RD	Looping, Counting & Indexing (Call/JMP etc)
	4 TH	Stack & Subroutines programes.
	5 th	Code conversion, BCD Arithmetic
6 TH	1 ST	16 Bit data Operation, Block Transfer
-	2 ND	Compare between two numbers
	3 RD	Array Handling (Largest number in the array)

	4 [™]	smallest number in the array
	5 th	Memory & I/O Addressing,
7 [™]	1 ST	Define opcode, operand, T-State.
	2 ND	Define Fetch cycle, Machine Cycle, Instruction cycle
		of timing diagram.
	3 RD	D iscuss the oncept of timing diagram.
	4 TH	Draw timing diagram for memory read, memory
		write machine cycle
	5 th	Draw timing diagram for I/O read, I/O write machine cycle.
8 TH	1 ST	Draw a neat sketch for the timing diagram for 8085 instruction (MOV,MVI instruction).
	2 ND	Draw a neat sketch for the timing diagram for 8085 instruction (LDA instruction).
	3 RD	Concept of interfacing
	4 TH	Define Mapping &Data transfer mechanisms -
		Memory mapping & I/O Mapping
	5 th	Concept of Memory Interfacing:- Interfacing EPROM & RAM Memories
9 TH	1 st	Concept of Address decoding for I/O devices
	2 ND	Programmable Peripheral Interface: 8255
	3 RD	ADC & DAC with Interfacing.
	4 [™]	Interfacing Seven Segment Displays
	5 th	Generate square waves on all lines of 8255
10 TH	1 ST	Design Interface a traffic light control system using 8255.
	2 ND	Design interface for stepper motor control using 8255
	3 RD	Design interface for stepper motor control using 8255
	4 [™]	Register Organisation of 8086.
	5 th	Internal architecture of 8086.
11 TH	1 ST	Signal Description of 8086.
	2 ND	Signal Description of 8086.
	3 RD	General Bus Operation.
	4 [™]	Physical Memory Organisation
	5 th	Minimum Mode & Timings,
12 TH	1 ST	Maximum Mode & Timings,
	2 ND	Interrupts and Interrupt Service Routines, Interrupt Cycle.
	3 RD	Non-Maskable Interrupt, Maskable Interrupt.
	4 TH	8086 Instruction Set & Programming: Addressing
		Modes, Instruction Set, Assembler Directives and Operators,
	5 th	Simple Assembly language programming using 8086 instructions

13 TH	1 ST	Distinguish between Microprocessor & Microcontroller
	2 ND	8 bit & 16 bit microcontroller
	3 RD	
	4 TH	CISC & RISC processor
		Architectureof8051Microcontroller
	5 th	Signal Descriptionof8051Microcontrollers
14 TH		Memory Organisation-RAM structure, SFR
	2 ND	Registers, timers, interrupts of 8051 Microcontrollers
	3 RD	Addressing Modes of 8051
	4 TH	Addressing Modes of 8051
	5 th	Simple 8051 Assembly Language Programming
		Arithmetic& Logic Instructions .
15 [™]	1 ST	JUMP, LOOP, CALL Instructions, I/O Port
		Programming.
	2 ND	Interrupts.
	3 RD	Timer & Counters.
	4 TH	Serial Communication
	5 th	Microcontroller Interrupts and Interfacing to 8255
DISCIPLINE: IT	SEMESTER:4TH	NAME OF THE TEACHING FACULTY: Kshirabdhi
		Tanaya Acharya
SUBJECT : DBMS	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 14/02/2023 TO
	CLASS ALLOTTED : 4	DATE: 23/05/2023
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
WEEK 1 ST	CLASS DAY 1 ST	
		THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS
	1 st	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems
	1 ST 2 ND	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction
	1 ST 2 ND 3 RD	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users
1 st	1 ST 2 ND 3 RD 4 TH	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language
1 ST	1 ST 2 ND 3 RD 4 TH 1 ST	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language Data Dictionary 2.0 DATA MODELS
1 st	1 ST 2 ND 3 RD 4 TH 1 ST 2 ND	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language Data Dictionary 2.0 DATA MODELS 2.1 Data independence 2.2 Entity relationship models
1 st	1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language Data Dictionary 2.0 DATA MODELS 2.1 Data independence
1 st	1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language Data Dictionary 2.0 DATA MODELS 2.1 Data independence 2.2 Entity relationship models 2.3 Entity sets and Relationship sets
1 ST	1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 4 TH 1 ST 2 ND 3 RD 1 ST 2 ND	THEORY/PRACTICAL TOPICS BASIC CONCPETS OF DBMS Purpose of database Systems Explain Data abstraction Database users Data definition language Data Dictionary 2.0 DATA MODELS 2.1 Data independence 2.2 Entity relationship models 2.3 Entity sets and Relationship sets 2.4 Explain Attributes

4 TH	1 st	2.9 Network model
	2 ND	3.0 RELATIONAL DATABASE 3.1 Relational algebra
	3 RD	3.1 Relational algebra
	4 TH	3.1 Relational algebra
5 TH	1 st	3.2 Different operators select, project, join , simple Examples
	2 ND	3.2 Different operators select, project, join , simple Examples
	3 RD	3.2 Different operators select, project, join , simple Examples
	4 TH	4.0 NORMALIZATION IN RELATIONAL SYSTEM 4.1 Functional Dependencies
6 TH	1 st	4.1 Functional Dependencies
	2 ND	4.2 Lossless join
	3 RD	4.2 Lossless join
	4 TH	4.3 Importance of normalization
7 TH	1 ST	4.4 Compare First second and third normal forms
	2 ND	4.4 Compare First second and third normal forms 4.5 Explain BCNF
	3 RD	4.4 Compare First second and third normal forms 4.5 Explain BCNF
	4 TH	5.0 STRUCTURED QUERY LANGUAGE 5.1 Elementary idea of Query language
8 TH	1 st	5.1 Elementary idea of Query language
	2 ND	5.2 Queries in SQL
	3 RD	5.2 Queries in SQL
	4 TH	5.2 Queries in SQL
9 TH	1 ST	5.3 Simple queries to create, update, insert in SQL
	2 ND	5.3 Simple queries to create, update, insert in SQL
	3 RD	5.3 Simple queries to create, update, insert in SQL
	4 TH	5.3 Simple queries to create, update, insert in SQL

10 TH	1 ST	6.0 TRANSACTION PROCESSING CONCEPTS
		6.1 Idea about transaction processing
	2 ND	6.1 Idea about transaction processing
	3 RD	6.2 Transaction & system concept
	4 TH	6.2 Transaction & system concept
11 TH	1 ST	6.3 Desirable properties of transaction
	2 ND	6.3 Desirable properties of transaction
	3 RD	6.4 Schedules and recoverability
	4 TH	6.4 Schedules and recoverability
12 TH	1 ST	7.0 CONCURRENCY CONTROL CONCEPTS 7.1 Basic concepts
	2 ND	7.1 Basic concepts
	3 RD	7.2 Locks, Live Lock, Dead Lock
	4 TH	7.2 Locks, Live Lock, Dead Lock
13 [™]	1 ST	7.2 Locks, Live Lock, Dead Lock
	2 ND	7.2 Locks, Live Lock, Dead Lock
	3 RD	7.3 Serializability (only fundamentals)
	4 TH	7.3 Serializability (only fundamentals)
14 TH	1 ST	8.0 SECURITY AND INTEGRITY 8.1 Authorization and views
	2 ND	8.1 Authorization and views
	3 RD	8.2 Security constraints
	4 TH	8.2 Security constraints
15 [™]	1 ST	8.2 Security constraints
	2 ND	8.3 Integrity Constraints
	3 RD	8.3 Integrity Constraints 8.4 Discuss Encryption
	4 TH	8.3 Integrity Constraints 8.4 Discuss Encryption
DISCIPLINE:CIT	SEMESTER:4TH	NAME OF THE TEACHING FACULTY: JHILI SETHY &
		NAYANA PATEL
SUBJECT: OS LAB	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 14/02/2023 TO
	CLASS ALLOTTED:3	DATE: 23/05/2023
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 ST	1 ST	Write a Shell
	2 ND	Write command line
	3 RD	script to print the command line arguments in reverse order.

2 ND	1 ST	Input Shell script to check given number
	2 ND	check given number
	3 RD	check the given number in palindrome Format.
	4 TH	Format is Palindrome or not.
3 RD	1 ST	Array
	2 ND	Shorting array
	3 RD	Merging Array
	4 TH	Ascending Array
4 [™]	1 ST	bubble sort.
	2 ND	Searching
	3 RD	Sequential Searching
	4 TH	Sequential Searching in Array
5 TH	1 ST	Binary Searching
	2 ND	Examples of Binary Searching
	3 RD	Edit and Print
	4 TH	Shell Script on Accept any two files
6 TH	1 ST	Check Files
-	2 ND	Permission of check Shell file
	3 RD	Read path name
	4 TH	Creat path event
7 [™]	1 ST	Create A,under A,Creat B,under B,Creat c
-	2 ND	Case Statement
	3 RD	Illustrate Create statement
	4 TH	Illustrate Case-Statement
8 TH	1 ST	In Shell script accept file name as argument
•	2 ND	Create another Shell script & re-creates file
	3 RD	Compare original format in original content
	4 TH	Write a shell to demonstrate terminal locking
9 [™]	1 ST	Write a shell to demonstrate terminal locking accept
		valid of login names
	2 ND	If the login name is valid then print in home
		directory else in appropriate message
	3 RD	Write a Shell Script to read the file name
	4 TH	Change the existing file permission
10 TH	1 ST	Valid and Print
	2 ND	Write a Shell Script to print current month callender
	3 RD	Replace the current date by * or ** format
	4 TH	Write a Shell Script display the menu
11 TH	1 ST	Menu consisting to display disk space
	2 ND	Total memory usess using memory function
	3 RD	Write C Programme in child Process
	4 TH	Execute
12 [™]	1 ST	Edit and Print
	2 ND	Print Owner Process
<u> </u>	3 RD	Id and Parent
	4 TH	Process Id and Print

13 TH	1 ST	Write a C Programme to Prompt Variable
-	2 ND	Check edit, Print, variables
	3 RD	Validity and Print the appropriate message
	4 TH	Write a Programme to print the appropriate
		message
14 TH	1 ST	Edit and Print the Exact Message
	2 ND	Use in C Progrmme N number of Students name,
		registration number
	3 RD	Apply in C Progrmme N number of Students name,
		registration number
	4 TH	Read N number of Students name, registration
		number
15 [™]	1 ST	Read N number of Students name, registration
		number
	2 ND	Edit Student name, registration number
	3 RD	Print Student name, registration number
	4 TH	Find eldest Display
DISCIPLINE : IT	SEMESTER:4TH	NAME OF THE TEACHING FACULTY:
		REETANJALI PANDA & SASMITA PANIGRAHI
SUBJECT : NW LAB	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 14/02/2023 TO
	CLASS ALLOTTED : 6	DATE: 23/05/2023
		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 ST	1. Recognize the physical topology and cabling
		(coaxial, OFC, UTP, STP) of a network
	2 ND	1. Recognize the physical topology and cabling
	3 RD	(coaxial, OFC, UTP, STP) of a network
	3"	1. Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
	4 TH	1. Recognize the physical topology and cabling
	-	(coaxial, OFC, UTP, STP) of a network
		(Uaala, U, U, U, U)
	5 th	•
	5 th	1. Recognize the physical topology and cabling
	5 th 6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of
	6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND		 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of
2 ND	6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND	6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of Recognition and use of various types of
2 ND	6 th 1 ST 2 ND	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND	6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND	6 th 1 ST 2 ND 3 RD	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND	6 th 1 ST 2 ND	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of
2 ND	6 th 1 ST 2 ND 3 RD	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
2 ND	6 th 1 ST 2 ND 3 RD 4 TH 5 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST
	6 th 1 ST 2 ND 3 RD 4 TH 5 th 6 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Making of cross cable and straight cable Making of cross cable and straight cable
2 ND	6 th 1 ST 2 ND 3 RD 4 TH 5 th	 Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST Recognition and use of various types of connectors RJ-45, RJ-11,BNC and SCST

	4 TH	 Install and configure a network interface card in a workstation
	5 th	4. Install and configure a network interface card in a workstation
	6 th	4. Install and configure a network interface card
		in a workstation
4 [™]	1 ST	4. Install and configure a network interface card in a workstation
	2 ND	4. Install and configure a network interface card in a workstation
	3 RD	 4. Install and configure a network interface card in a workstation
	4 TH	
	4	5. Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	5 th	5. Identify the IP address of a workstation and
		the class of the address and configure the IP Address on a workstation
	6 th	5. Identify the IP address of a workstation and
	Ũ	the class of the address and configure the IP
		Address on a workstation
5 TH	1 ST	5. Identify the IP address of a workstation and
5	Ť	the class of the address and configure the IP
		Address on a workstation
	2 ND	5. Identify the IP address of a workstation and
	2	the class of the address and configure the IP
		Address on a workstation
	3 RD	
	-	6. Managing user accounts in windows and LINUX
	4 TH	 Managing user accounts in windows and LINUX
	5 th	6. Managing user accounts in windows and LINUX
	6 th	6. Managing user accounts in windows and LINUX
6 TH	1 st	7. Sharing of Hardware resources in the network.
	2 ND	7. Sharing of Hardware resources in the network.
	3 RD	7. Sharing of Hardware resources in the
	<u></u> лн	network.
		7. Sharing of Hardware resources in the network.
	5 th	7. Sharing of Hardware resources in the network.
	6 th	8. Use of Netstat and its options
7 [™]	1 ST	8. Use of Netstat and its options
-	2 ND	8. Use of Netstat and its options
	3 RD	
	3.,5	8. Use of Netstat and its options

	4 [™]	8. Use of Netstat and its options
	5 th	9. Connectivity troubleshooting using PING, IPCONFIG
	6 th	9. Connectivity troubleshooting using PING, IPCONFIG
8 TH	1 ST	9. Connectivity troubleshooting using PING, IPCONFIG
	2 ND	9. Connectivity troubleshooting using PING, IPCONFIG
	3 RD	9. Connectivity troubleshooting using PING, IPCONFIG
	4 TH	10. Installation of Network Operating System(NOS)
	5 th	10. Installation of Network Operating System(NOS)
	6 th	10. Installation of Network Operating System(NOS)
9 TH	1 ST	10. Installation of Network Operating System(NOS)
	2 ND	10. Installation of Network Operating System(NOS)
	3 RD	11. Create a network of at least 6 computers
	4 TH	11. Create a network of at least 6 computers
	5 th	11. Create a network of at least 6 computers
	6 th	11. Create a network of at least 6 computers
10 TH	1 ST	11. Create a network of at least 6 computers
	2 ND	12. Study of Layers of Network and Configuring Network Operating System
	3 RD	12. Study of Layers of Network and Configuring Network Operating System
	4 TH	12. Study of Layers of Network and Configuring Network Operating System
	5 th	12. Study of Layers of Network and Configuring Network Operating System
	6 th	12. Study of Layers of Network and Configuring Network Operating System
11 TH	1 st	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	2 ND	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	3 RD	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	4 TH	13. Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	5th	13. Study of Routing and Switching, configuring

		of Switch and Routers, troubleshooting of networks
	6 th	14. Study of Scaling of Networks, Design verities of
	[°]	LAN and forward of Traffic
12 TH	1 ST	14. Study of Scaling of Networks, Design verities of
	-	LAN and forward of Traffic
	2 ND	14. Study of Scaling of Networks, Design verities of
	2	LAN and forward of Traffic
	3 RD	14. Study of Scaling of Networks, Design verities of
	5	LAN and forward of Traffic
	4 TH	14. Study of Scaling of Networks, Design verities of
		LAN and forward of Traffic
	5 th	15. Study WAN concepts and Configure and
		forward Traffic in WAN
	6 th	15. Study WAN concepts and Configure and
		forward Traffic in WAN
13 TH	1 ST	15. Study WAN concepts and Configure and
		forward Traffic in WAN
	2 ND	15. Study WAN concepts and Configure and
		forward Traffic in WAN
	3 RD	15. Study WAN concepts and Configure and
		forward Traffic in WAN
	4 TH	16. Configure IPv4 and IPv6 and learn Quality,
		security and other services
	5 th	16. Configure IPv4 and IPv6 and learn Quality,
		security and other services
		16. Configure IPv4 and IPv6 and learn Quality,
	Cth	security and other services
	6 th	16. Configure IPv4 and IPv6 and learn Quality,
14 TH	1 ST	security and other services
14		16. Configure IPv4 and IPv6 and learn Quality,
	2 ND	security and other services 16. Configure IPv4 and IPv6 and learn Quality,
	Z	security and other services
	3 RD	17. Learn Network programming
	4 TH	17. Learn Network programming
	4	17. Learn Network programming
	6th	17. Learn Network programming
15 TH		17. Learn Network programming
1.5	2 ND	18. Troubles shoot Networks
	3 RD	18. Troubles shoot Networks
	4 TH	
	5 th	18. Troubles shoot Networks
	-	18. Troubles shoot Networks
	6th	18. Troubles shoot Networks
DISCIPLINE:IT	SEMESTER:4TH	NAME OF THE TEACHING FACULTY:SUMITRA MAHAPATRA AND K. TANAYA ACHARYA
SUBJECT: DBMS LAB	NO.OF DAYS/PER WEEK	SEMESTER FROM DATE: 14/02/2023 TO
	CLASS ALLOTTED:4	DATE: 23/05/2023
		DATE. 23/03/2023

		NO.OF WEEKS:15
WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1 st	1 st	Create employee table with field names
		emp_no, emp_name , emp_salary,
		emp_designation, emp_jobid ,job and start
		date, employees hire date . Insert 10 rows.
	2 ND	Create employee table with field names emplid,
		emp_name, emp_salary, emp_designation,
		emp_jobid. Insert 10 rows.
	3 RD	Create department table with field names
		dept_name, dept_id, dept_location, dept_no. Insert
		8 rows.
	4 TH	Create deartment table with field names
		dept_name, dept_id, dept_location. Insert 8 rows.
2 ND	1 ST	Show the structure of department table. Select
		all data from dept table. Create a query to
		display unique jobs from the emp table.
	2 ND	Show the structure of department table. Select
		all data from dept table. Create a query to
		display unique jobs from the emp table.
	3 RD	Create a query to display the Name and salary of
		employees earning more than Rs.2850.Save the
		query and run it.
	4 TH	Create a query to display the Name and salary of
		employees earning more than Rs.2850.Save the
		query and run it.
3 RD	1 ST	Create a query to display the employee name and
		department no. for employee no. 7566. Save the
		query and run it.
	2 ND	Display the employee name, job and start date of
		employees hire date between Feb.20.1981 and May
		1, 1981. Order the query in ascending order of start
	3 RD	date.
	5	Display the employee name, job and start date of employees hire date between Feb.20.1981 and May
		1, 1981. Order the query in ascending order of start
		date.
	4 TH	Display the employee name, job and start date of
		employees hire date between Feb.20.1981 and May
		1, 1981. Order the query in ascending order of start
		date.
4 [™]	1 st	Display the name and title of all employees who
		don't have a Manager.
	2 ND	Display the name and title of all employees who
		don't have a Manager.
	3 RD	Display the name, salary and comm. For all

		employee who earn comm. Sort data in descending order of salary and comm.
	4 TH	Display the name, salary and comm. For all employee who earn comm. Sort data in descending order of salary and comm.
5 TH	1 st	Display the name job, salary for all employees whose job is Clerk or Analyst their salary is not equal to Rs.1000, Rs.3000, Rs.5000.
	2 ND	Display the name job, salary for all employees whose job is Clerk or Analyst their salary is not equal to Rs.1000, Rs.3000, Rs.5000.
	3 RD	Write a query to display the date. Label the column DATE.
	4 [™]	Write a query to display the date. Label the column DATE.
6 TH	1 ST	Create a unique listing of all jobs that are in department 30.
	2 ND	Create a unique listing of all jobs that are in department 30.
	3 RD	Write a query to display the name, department number and department name for all employees.
	4 TH	Write a query to display the name, department number and department name for all employees.
7 TH	1 ST	Write a query to display the employee name, department name, and location of all employee who earn a commission
	2 ND	Write a query to display the employee name, department name, and location of all employee who earn a commission
	3 RD	Write a query to display the name, job, department number and department name for all employees who works in DALLAS.
	4 TH	Write a query to display the name, job, department number and department name for all employees who works in DALLAS.
8 TH	1 st	Write a query to display the name, job, department number and department name for all employees who works in DALLAS.
	2 ND	Write a query to display the number of people with the same job. Save the query @ run it.
	3 RD	Write a query to display the number of people with the same job. Save the query @ run it.
	4 TH	Create a query to display the employee name and hire date for all employees in same department.
9 TH	1 ST	Create a query to display the employee name and

		hire date for all employees in same department.
	2 ND	Display the employee name and salary of all
		employees who report to KING.
	3 RD	Display the employee name and salary of all employees who report to KING.
	4 TH	Display the name, department name and salary of any employee whose salary and commission matches both the salary and commission of any employee located in DALLAS.
10 TH	1 st	Display the name, department name and salary of any employee whose salary and commission matches both the salary and commission of any employee located in DALLAS.
	2 ND	Display the name, department name and salary of any employee whose salary and commission matches both the salary and commission of any employee located in DALLAS.
	3 RD	Create a student database table using create command using Regd. No as Primary Key , insert data of your class.
	4 TH	Create a student database table using create command using Regd. No as Primary Key , insert data of your class.
11 TH	1 st	Create a student database table using create command using Regd. No as Primary Key , insert data of your class.
	2 ND	Create a student database table using create command using Regd. No as Primary Key , insert data of your class.
	3 RD	Create a student database table using create command using Regd. No as Primary Key , insert data of your class.
	4 TH	Delete the information of student having roll No -15 and City- Bhubaneswar. Rename the Student database table to STUDENT INFORMATION.
12 TH	1 st	Delete the information of student having roll No -15 and City- Bhubaneswar. Rename the Student database table to STUDENT INFORMATION.
	2 ND	Delete the information of student having roll No -15 and City- Bhubaneswar. Rename the Student database table to STUDENT INFORMATION.
	3 RD	Practice of all Data Retrieval, DML commands used in Oracle by writing queries.
	4 TH	Practice of all Data Retrieval, DML commands used in Oracle by writing queries.
13 TH	1 st	Practice of all Data Retrieval, DML commands used in Oracle by writing queries.

	2 ND	Practice of all Data Retrieval ,DDL commands used in Oracle by writing queries.
	3 RD	Practice of all Data Retrieval ,DDL commands used in Oracle by writing queries.
	4 TH	Practice of all Data Retrieval ,DDL commands used in Oracle by writing queries.
14 TH	1 ST	Practice of all Data Retrieval, TCL commands used in Oracle by writing queries.
	2 ND	Practice of all Data Retrieval, TCL commands used in Oracle by writing queries.
	3 RD	Practice of all Data Retrieval, TCL commands used in Oracle by writing queries.
	4 TH	Practice of all Data Retrieval, DCL commands used in Oracle by writing queries.
15 TH	1 ST	Practice of all Data Retrieval, DCL commands used in Oracle by writing queries.
	2 ND	Practice of all Data Retrieval, DCL commands used in Oracle by writing queries.
	3 RD	Practice of all Data Retrieval, DML, DDL, TCL and DCL commands used in Oracle by writing queries.
	4 TH	Practice of all Data Retrieval, DML, DDL, TCL and DCL commands used in Oracle by writing queries.