



DEPARTMENT OF MATHEMATICS AND SCIENCE
ORISSA SCHOOL OF MINING ENGINEERING, KEONJHAR
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LESSON PLAN

SUBJECT: COMPUTER APPLICATION THEORY

Discipline: CIVIL, MECHANICAL		Name of the Faculty: Er. Alisa Ransingh	
Course Code:	Th-1(b)	Semester:	1st
Total Periods:	60	Examination:	Winter 2022-23
No Of Days /Week class Allotted:	4/week	Max mark allotted (semester & internal)	(80+20)=100

MONTH	WEEK	NO OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED
Oct-22	1st	4	27/10/22	Introduction to Computer, Evolution of Computers
			28/10/22	Generation of Computers, Classification of Computers
			28/10/22	Basic Organisation of Computer (Functional Block diagram) Input Devices,
			29/10/22	CPU & Output Devices. Computer Memory and Classification of Memory
Nov-22	1st	4	4/11/22	Revision & Doubt clearing class of –chapter-1
			5/11/22	Software concept, System software, Application software
			5/11/22	Overview of Operating System Objectives and Functions of O.S.,
			6/11/22	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX
	2nd	4	10/11/22	Programming Languages, Compiler, interpreter Computer Virus
			11/11/22	Different Types of computer virus
			11/11/22	Detection and prevention of Virus Application of computers in different Domain
			12/11/22	Revision & Doubt clearing class of –chapter-2
	3rd	4	17/11/22	Class test
			18/11/22	Networking concept, Protocol, Connecting Media, Data Transmission mode
			18/11/22	Network Topologies, Types of Network
			19/11/22	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
	4th	4	24/11/22	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing,
			25/11/22	Electronic Newspaper & Online Shopping Different types of Internet connectivity and ISP
			25/11/22	Revision & Doubt Clearing of chapter-3

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			26/11/22	Concept of File and Folder, File Access and Storage methods. Sequential, Direct, ISAM
Dec-22	1st	4	1/12/22	Data Capture, Data storage, Data Processing and Retrieval
			2/12/22	Revision & Doubt clearing of chapter-4
				Class Test
			2/12/22	Internal
	2nd	4	3/12/22	Algorithm, Pseudo code
			8/12/22	Flowchart Generation of Programming Languages
			9/12/22	Flowchart to find the greatest number among the 3 numbers.
			9/12/22	Flowchart to find the average of n numbers, Flowchart to determine whether a number is prime
	3rd	4	10/12/22	Flowchart to check whether a given number is palindrome ,Flowchart to compute the sine series. .
			15/12/22	Revision & Doubt Clearing of Chapter-5
			16/12/22	Constants, Variables
			16/12/22	Data types in C Managing Input and Output operations.
	4th	4	17/12/22	Operators
			22/12/22	Operators
			23/12/22	Expressions.
			23/12/22	Type conversion & Typecasting
Jan-23	1st	4	24/12/22	Decision Control and Looping Statements
			5/1/23	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto)
			6/1/23	Write a Program in C to find the greatest number among three numbers.
			6/1/23	Write a Program in C to find the average of n numbers by using for loop.? Write a program in C to determine whether a number is prime or not?
	2nd	4	7/1/23	Revision & Doubt Clearing –chapter-6
			12/1/23	Class Test
			13/1/23	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
			13/1/23	Scope of Variables and Storage Classes, Recursion Function and Types of Recursion
	3rd	4	19/1/23	One Dimensional Array and Multidimensional Array, String Operations .
			20/1/23	Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features .
			20/1/23	Structure and Union (Only concepts, No Programming)
			21/1/23	Revision & Doubt Clearing Class-chapter-7
	4th	3	27/1/23	Class Test
			27/1/23	Previous year questions discussion
			28/1/23	Previous year questions discussion

Prepared By
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LESSON PLAN

Subject: COMPUTER APPLICATION THEORY

Discipline: Metallurgical Engineering				Name of the Faculty: Er. Alisa Ransingh	
Course Code:		Th-1(b)		Semester:	1st
Total Periods:		60		Examination:	Winter 2022-23(25/10/22 to 31/1/23)
No Of Days /Week class Allotted:		4/week		Max mark allotted (semester & internal)	(80+20)=100
MONTH	WEEK	NO OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED	
Oct-22	1st	3	25/10/22	Introduction to Computer, Evolution of Computers	
			26/10/22	Generation of Computers ,Classification of Computers	
			26/10/22	Basic Organisation of Computer (Functional Block diagram) Input Devices,	
	2nd	1	31/10/22	CPU & Output Devices. Computer Memory and Classification of Memory	
Nov-22	1st	3	1/11/22	Revision & Doubt clearing class of –chapter-1,class test	
			2/11/22	Class test Q &A discussion,Software concept, System software, Application software	
			3/11/22	Overview of Operating System Objectives and Functions of O.S	
	2nd	2	7/11/22	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX	
			9/11/22	Programming Languages, Compiler, interpreter Computer Virus	
	3rd	4	14/11/22	Different Types of computer virus	
			15/11/22	Detection and prevention of Virus Application of computers in different Domain	
			15/11/22	Revision & Doubt clearing class of –chapter-2	
			16/11/22	Class test-Q & A discussion.	
	4th	4	21/11/22	Networking concept, Protocol, Connecting Media, Data Transmission mode	
			22/11/22	Network Topologies, Types of Network	
			22/11/22	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC	
			23/11/22	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing,	
			28/11/22	Electronic Newspaper & Online Shopping Different types of Internet connectivity and ISP	
	5th	4	29/11/22	Revision & Doubt Clearing of chapter-3	
			29/11/22	Concept of File and Folder, File Access and Storage methods. Sequential, Direct, ISAM	
			30/11/22	Data Capture, Data storage, Data Processing and Retrieval	

Dec-22	1st	4	5/12/22	Revision & Doubt clearing of chapter-4
			6/12/22	Class Test
			6/12/22	Internal
			7/12/22	Algorithm, Pseudo code
	2nd	4	12/12/22	Algorithm, Pseudo code
			13/12/22	Flowchart Generation of Programming Languages
			13/12/22	Flowchart to find the greatest number among the 3 numbers.
			14/12/22	Flowchart to find the average of n numbers
	3rd	4	19/12/22	Flowchart to determine whether a number is prime
			20/12/22	Flowchart to check whether a given number is palindrome Flowchart to compute the sine series. .
			20/12/22	Revision & Doubt Clearing of Chapter-5
			21/12/22	Constants, Variables Data types in C Managing Input and Output operations.
Jan-23	1st	4	2/1/23	Data types in C Managing Input and Output operations., Operators
			3/1/23	Operators,
			3/1/23	Expressions , Type conversion & Typecasting
			4/1/23	Decision Control and Looping Statements
	2nd	4	9/1/23	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto)
			10/1/23	Write a Program in C to find the greatest number among three numbers.
			10/1/23	Write a Program in C to find the average of n numbers by using for loop, Write a program in C to determine whether a number is prime or not?
			11/1/23	Revision & Doubt Clearing –chapter-6
	3rd	4	16/1/23	Class Test
			17/1/23	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
			17/1/23	Scope of Variables and Storage Classes, Recursion Function and Types of Recursion
			18/1/23	One Dimensional Array and Multidimensional Array, String Operations .
	4th	4	23/1/23	Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features .
			24/1/23	Structure and Union (Only concepts, No Programming)
			24/1/23	Revision & Doubt Clearing Class-chapter-7
			25/1/23	Class Test
	5th	3	30/1/23	Previous year questions discussion
			31/1/23	Previous year questions discussion
			31/1/23	Previous year questions discussion

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LESSON PLAN

Subject: COMPUTER APPLICATION PRACTICAL

Discipline: CIVIL, MECHANICAL & METALLURGICAL ENGINEERING		Name of the Faculty: Er. Alisa Ransingh	
		Name of the Lab Asst. Er. Suchismita Majhi	
Course Code:	Pr-1(b)	Semester:	1st
Total Periods:	60	Examination:	Winter 2022-23
No Of Days /Week class Allotted:/group	4/week	Max mark allotted (sessional)	50

MONTH	WEEK	NO OF PERIODS AVAILABLE	CLASS DAY	PRACT TOPICS TO BE COVERED
Oct-22	1st	2	25/10/22	Identification of different components of Computer, Switch on and Booting Process, Shut down, Restart of computer
			25/10/22	Study of device and power supply form factor of Personal Computer System
	2nd	2	31/10/22	Identification of various Mother Board components and Identification of different Ports
			31/10/22	Types of connectors, and their purpose
Nov-22	1st	2	1/11/22	Cooling System of Processor and Case Identification
			1/11/22	Study of ROM, RAM, Adapter Cards, Expansion Slots, SATA connectors
	2nd	2	7/11/22	Study of Adapters and Converters
			7/11/22	Study of various types of LAB Safety measures (General Safety, Electrical Safety, Fire safety)
	3rd	4	14/11/22	Analysis of various Power Fluctuation Types (Blackout, Brownout, Noise, Spike, Power surge), Power Protection Devices (Surge suppressor, UPS, Standby power supply)
			14/11/22	Procedures for proper disposal or recycling of hazardous computer components (Batteries, Monitors, Toner Kits, Cartridges, Chemical Solvents and Aerosol Cans)
			15/11/22	Study of General Lab Tools (ESD tools, Hand tools, cable tools, Cleaning tools, Diagnostic tools), Disk Management Tools
			15/11/22	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD CARDS, PATH)
	4th	4	21/11/22	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD CARDS, PATH)
			21/11/22	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD CARDS, PATH)
			22/11/22	Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS
			22/11/22	Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS
	5th	4	28/11/22	Basic operations of Word Processing Package. (MS-Word) .
			28/11/22	Basic operations of Word Processing Package. (MS-Word)

			29/11/22	Basic operations of Word Processing Package. (MS-Word) Assignment on MS-WORD
Dec-22	1st	4	29/11/22	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
			5/12/22	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
			5/12/22	Basic operations of Electronic Spread Sheet Package. (MS-Excel).Assignment on Excel
			6/12/22	Basic operations of Presentation Package (MS- Power point)
			6/12/22	Basic operations of Presentation Package (MS- Power point)
	2nd	4	12/12/22	Basic operations of Presentation Package (MS- Power point) (Create, Edit, Format, Save, Print/View in the above three packages)
			12/12/22	Getting acquainted with Internet connection, Browser, Website URL, Webpage, http, WWW, Net browsing
			13/12/22	Creating E-Mail Id, sending and receiving E-mail, Chatting
			13/12/22	CISCO-IT Essential exam Chapter-1
	3rd	4	19/11/22	CISCO-IT Essential exam Chapter-2 & 3
			19/12/22	CISCO-IT Essential exam Chapter-4 & 5
			20/11/22	CISCO-IT Essential exam Chapter-6 & 7
			20/12/22	CISCO-IT Essential exam Chapter-8 & 9
Jan-23	1st	4	2/1/23	CISCO-IT Essential exam Chapter-10 & 11
			2/1/23	CISCO-IT Essential exam Chapter-12 & 13
			3/1/23	CISCO-IT Essential exam Chapter-14
			3/1/23	Final Exam ch-1 to 9
	2nd	4	9/1/23	Final Exam ch-10 to 14
			9/1/23	Feed back and composite final exam ch-1 to 14.
			10/1/23	Feed back and composite final exam ch-1 to 14.
			10/1/23	Certificate distribution on successful completion.
	3rd	4	16/1/23	Familiar with Turbo c++ environment
			16/1/23	Write a Program in C to find the greatest number among three numbers.
			17/1/23	Write a Program in C to find the average of n numbers by using for loop
			17/1/23	Write a program in C to compute the sine series? Write a program in C to determine whether a number is prime or not?
	4th	4	23/1/23	Write a program in C to check whether a given number is palindrome or not? .
			23/1/23	Write a program in C to accept row wise and column wise element in a two dimensional array & print them.
			24/1/23	Write a program in C to find the vowels in a given string Write a program in C to find the factorial of a number, by using recursion
			24/1/23	Write a program in C to find the sum of Fibonacci series, by using function.
	5th	4	30/1/23	Write a program in C to accept a number from keyboard and print it in reverse order of entry, by using function
			30/1/23	Practice C Programs
			31/1/23	Practice C Programs
			31/1/23	Practice C Programs

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