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| **C:\Users\EXAM\Desktop\Picture1.jpg** | **DEPARTMENT OF MATHEMATICS AND SCIENCE****ORISSA SCHOOL OF MINING ENGINEERING, KEONJHAR** *Website: www.osme.co.in,* *Email:* *osmemath.science@gmail.com* |
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| **LESSONPLAN** |
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| **Discipline:** **1st year (Common to all)** | **Semester:** **2nd semester** | **Name of the Teaching Faculty:1) Smt. Alisa Ransingh** **2)Miss Suchismita Majhi** |
| **Subject:****Comp Appl.****Sub code: TH1b** | **No of days /week class allotted:04** | **Semester from Date:15-03-22 to 30-06-22****No of weeks:15** |
| **Week** | **Class Day** | **Theory topics** | **Practical topics** | **Remarks** |
| 1st | 1st | Introduction to Computer, Evolution of Computers ,Generation of Computers ,Classification of Computers | Identification of different components of Computer ,Switch on and Booting Process ,Shut down, Restart of computer |  |
|  | 2nd | Generation of Computers ,Classification of Computers | Study of device and power supply form factor of Personal Computer System |  |
|  | 3rd | Basic Organisation of Computer (Functional Block diagram) Input Devices,  | Identification of various Mother Board components and Identification of different Ports |  |
|  | 4th | CPU & Output Devices. Computer Memory and Classification of Memory | Types of connectors, and their purpose |  |
| 2nd | 1st |  Software concept, System software, Application software | Cooling System of Processor and Case Identification |  |
|  | 2nd | Overview of Operating System Objectives and Functions of O.S , | Study of ROM, RAM, Adapter Cards, Expansion Slots, SATA connectors |  |
|  | 3rd | Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX | Study of Adapters and Converters |  |
|  | 4th | Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS Features of DOS, Windows and UNIX | Study of various types of LAB Safety measures (General Safety, Electrical Safety, Fire safety) |  |
| 3rd | 1st | Programming Languages, Compiler, interpreter Computer Virus | Analysis of various Power Fluctuation Types (Blackout, Brownout, Noise, Spike, Power surge), Power Protection Devices (Surge suppressor, UPS, Standby power supply) |  |
|  | 2nd | Different Types of computer virus | Procedures for proper disposal or recycling of hazardous computer components (Batteries, Monitors, Toner Kits, Cartridges, Chemical Solvents and Aerosol Cans) |  |
|  | 3rd | Detection and prevention of Virus Application of computers in different Domain | Study of General Lab Tools (ESD tools, Hand tools, cable tools, Cleaning tools, Diagnostic tools), Disk Management Tools |  |
|  | 4th | Revision and doubt clearing class  | Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH) |  |
| 4th | 1st | Networking concept, Protocol, Connecting Media, Data Transmission mode | Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH) |  |
|  | 2nd | Network Topologies, Types of Network | Basic DOS commands (CLS,DIR,DATE,TIME,VERSION,MD,CD,RD,DEL,COPY,REN, USE OF WILD CARDS, PATH) |  |
|  | 3rd | Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC | Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS |  |
|  | 4th | Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, | Basic Windows OS operations, MOUSE OPERATIONS, Utilities and Accessories, Installation and configuration of OS |  |
| 5th | 1st |  Electronic Newspaper & Online Shopping Different types of Internet connectivity and ISP | Basic operations of Word Processing Package. (MS-Word) . |  |
|  | 2nd | Doubt Clearing classes | Basic operations of Word Processing Package. (MS-Word) |  |
|  | 3rd | Concept of File and Folder | Basic operations of Word Processing Package. (MS-Word)Assignment on MS-WORD |  |
|  | 4th | File Access and Storage methods. Sequential, Direct, ISAM  | Basic operations of Electronic Spread Sheet Package. (MS-Excel). |  |
| 6th | 1st | File Access and Storage methods. Sequential, Direct, ISAM | Basic operations of Electronic Spread Sheet Package. (MS-Excel). |  |
|  | 2nd | Data Capture, Data storage  | Basic operations of Electronic Spread Sheet Package. (MS-Excel).Assignment on Excel |  |
|  | 3rd | Data Processing and Retrieval | Basic operations of Presentation Package (MS- Power point) |  |
|  | 4th | Algorithm, Pseudo code | Basic operations of Presentation Package (MS- Power point) |  |
| 7th | 1st | Flowchart Generation of Programming Languages Structured Programming Language | Basic operations of Presentation Package (MS- Power point)(Create, Edit, Format, Save, Print/View in the above three packages) |  |
|  | 2nd | Flowchart to find the greatest number among three numbers | Getting acquainted with Internet connection, Browser, Website URL, Webpage, http, WWW, Net browsing |  |
|  | 3rd | Flowchart to find the average of n numbers | Creating E-Mail Id, sending and receiving E-mail Chatting |  |
|  | 4th | Flowchart to determine whether a number is prime or not | CISCO-IT Essential exam Chapter-1 |  |
| 8th | 1st  | Flowchart to check whether a given number is palindrome or not? | CISCO-IT Essential exam Chapter-2 & 3 |  |
|  | 2nd | Flowchart to compute the sine series. . | CISCO-IT Essential exam Chapter-4 &5 |  |
|  | 3rd | Constants, Variables | CISCO-IT Essential exam Chapter-6 & 7 |  |
|  | 4th | Data types in C Managing Input and Output operations. | CISCO-IT Essential exam Chapter-8 & 9 |  |
| 9th | 1st | Data types in C Managing Input and Output operations. | CISCO-IT Essential exam Chapter-10 & 11 |  |
|  | 2nd | Data types in C Managing Input and Output operations. | CISCO-IT Essential exam Chapter-12 & 13 |  |
|  | 3rd | Operators | CISCO-IT Essential exam Chapter-14 |  |
|  | 4th | Operators  | Final Exam ch-1 to 9 |  |
| 10th | 1st | Operators  | Final Exam ch-10 to 14 |  |
|  | 2nd | Operators | Feed back and composite final exam ch-1 to 14. |  |
|  | 3rd | Expressions | Feed back and composite final exam ch-1 to 14. |  |
|  | 4th | Type conversion & Typecasting | Certificate distribution on successful completion. |  |
| 11th | 1st | Type conversion & Typecasting | Familiar with Turbo c++ s/w. |  |
|  | 2nd | Decision Control and Looping Statements | Write a Program in C to find the greatest number among three numbers. |  |
|  | 3rd | Decision Control and Looping Statements | Write a Program in C to find the greatest number among three numbers. |  |
|  | 4th | Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto) | Write a Program in C to find the greatest number among three numbers. |  |
| 12TH | 1st |  Write a Program in C to find the greatest number among three numbers. | Write a Program in C to find the average of n numbers by using for loop |  |
|  | 2nd | Write a Program in C to find the average of n numbers by using for loop. | Write a Program in C to find the average of n numbers by using for loop . |  |
|  | 3rd | Write a program in C to determine whether a number is prime or not? | Write a program in C to determine whether a number is prime or not? |  |
|  | 4th | Functions and Passing Parameters to the Function (Call by Value and Call by Reference) | Write a program in C to determine whether a number is prime or not? |  |
| 13TH | 1st | Scope of Variables and Storage Classes | Write a program in C to check whether a given number is palindrome or not? . |  |
|  | 2nd | Recursion Function and Types of Recursion | Write a program in C to compute the sine series |  |
|  | 3rd | One Dimensional Array and Multidimensional Array | Write a program in C to accept row wise and column wise element in a two dimensional array & print them. |  |
|  | 4th | String Operations . | Write a program in C to find the vowels in a given string |  |
| 14TH | 1st | Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features . | Write a program in C to find the factorial of a number, by using recursion |  |
|  | 2nd | Pointers Pointer Expression and Pointer Arithmetic Programming Assignments using the above features |  Write a program in C to find the sum of Fibonacci series, by using function. |  |
|  | 3rd | Structure and Union (Only concepts, No Programming) | Write a program in C to accept a number from keyboard and print it in reverse order of entry, by using function |  |
|  | 4th | DOUBT CLEARING CLASSES. | LAB PRACTICE . |  |
| 15TH | 1st | CLASS TEST. | LAB PRACTICE . |  |
|  | 2nd | CLASS TEST. | LAB PRACTICE . |  |
|  | 3rd | CLASS TEST | LAB PRACTICE . |  |
|  | 4th | CLASS TEST | LAB PRACTICE . |  |

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