

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2022-2023

Discipline: Civil/Mechanical Engg. Semester: 2nd

Subject: Computer Application

Name of the Teaching Faculty: Mr. Snehashis Das Mohapatra

Subject: COMPUTER APPLICATION No. of Days/per week class allotted 04

Semester From Date: 20/03/23 To Date: 24/06/23 No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|------|-----------|---|
| 1st | 1 | Introduction of computer and its types. |
| | 2 | Evolution of computer with its generations. |
| | 3 | Block diagram of computer with Explanations. |
| | 4 | I/p device and o/p device with ALU & CU |
| 2nd | 1 | Computer memory and its classifications |
| | 2 | S/w concepts |
| | 3 | H/w vs s/w and application s/w |
| | 4 | System s/w and Application s/w |
| 3rd | 1 | Concept of Operating system |
| | 2 | Batch processing, Multiprogramming, Timesharing O.S |
| | 3 | Compiler vs Interpreter with DOJ & Unix |
| | 4 | Viruses and its types. |


Signature of the Faculty

Subject: Computer Application No. of Days/per week class allotted 04

Semester From Date: 20/03/23 To Date: 24/06/23 No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|------|-----------|--|
| 4th | 1 | Networking Concept |
| | 2 | Connecting media and Data Transmission mode |
| | 3 | Network Topology |
| | 4 | Types of Network |
| 5th | 1 | Hub, Repeater, Switch, Bridge, Router |
| | 2 | Internet service, E-mail, FTP, Chatting, Online shopping |
| | 3 | Different types of Internet connectivity. |
| | 4 | Internet service providers |
| 6th | 1 | concept of file and folder |
| | 2 | File Access and storage method |
| | 3 | Sequential and Direct and ISAM methods |
| | 4 | Data capture and Data storage |


Signature of the Faculty

Subject: Computer Application No. of Days/per week class allotted 4

Semester From Date : 20/03/23 To Date : 24/06/23 No. of Weeks : 15

| Week | Class Day | Theory /Practical Topics |
|------|-----------|---|
| 7th | 1st | Data processing and Retrieval |
| | 2nd | Algorithm concept |
| | 3rd | Problem solve using Algorithm |
| | 4th | Flowchart Explanation |
| 8th | 1st | Problem solving through Flowchart |
| | 2nd | Structured programming language |
| | 3rd | Programming language (Highlevel, Lowlevel, middlelevel) |
| | 4th | Constant & Variable Variable with Example |
| 9th | 1st | Operators and Expressions with Examples |
| | 2nd | Switch statement with Examples |
| | 3rd | Break and Continue statements with Examples |
| | 4th | Different types of Loop with syntax |


Signature of the Faculty

Subject: Computer Application No. of Days/per week class allotted 04

Semester From Date: 20/03/23 To Date: 24/06/23 No. of Weeks: 15

| Week | Class Day | Theory /Practical Topics |
|------------------|-----------------|--|
| 10 th | 1 st | Explanation of for-loop |
| | 2 nd | Explanation of while-loop |
| | 3 rd | while loop vs do-while loop |
| | 4 th | goto statements with examples |
| 11 th | 1 st | Programming like factorial, prime no. |
| | 2 nd | Programming like palindrom no., Armstrong num. |
| | 3 rd | Programming like power of number and series num. |
| | 4 th | Function concept in 'C' programming |
| 12 th | 1 st | Call by value vs call by reference |
| | 2 nd | Example of formal Arguments & Actual Arguments |
| | 3 rd | Storage class |
| | 4 th | Function Recursion with example |


Signature of the Faculty

Subject: Computer Application No. of Days/per week class allotted 04

Semester From Date: 20/03/23 To Date: 24/06/23 No. of Weeks: 15

| Week | Class Day | Theory /Practical Topics |
|------------------|-----------------|--|
| 13 th | 1 st | Array concepts |
| | 2 nd | Type of Array |
| | 3 rd | programming on one dimensional Array |
| | 4 th | Sorting |
| 14 th | 1 st | programming on two dimensional Array |
| | 2 nd | Multiplication of Matrix in C Language |
| | 3 rd | pointer concept |
| | 4 th | pointer (Address) with Examples |
| 15 th | 1 st | String operation with Examples |
| | 2 nd | String function programming |
| | 3 rd | structure & Union Examples |
| | 4 th | structure Overview Examples |


Signature of the Faculty

PADMASHREE KRUTARTHA ACHARYA
INSTITUTE OF ENGINEERING & TECHNOLOGY,
BARGARH



LESSON PLAN
Session: 2022-23

1st Semester

Branch- Electrical/Computer Sc. & Engineering

Subject- Computer Application

Mr. Snehashish Dash Mohapatra

Sr. Lect. in Computer Sc. & Engg.


Subject: Computer Application

No. of Days/per week Class allotted: 04

Semester from Date: 25-10-2022 To Date: 20-02-2023

No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|-----------------|-----------|--|
| 1 st | 1 | Introduction of Computer & its types |
| | 2 | Evolution of Computer with its generations |
| | 3 | Block Diagram of Computer with Explanations |
| | 4 | Input Device & Output Device with ALU & CU |
| 2 nd | 1 | Computer Memory & its Classifications |
| | 2 | Software Concepts |
| | 3 | Hardware Concepts vs Software Concepts |
| | 4 | Application Software Concepts |
| 3 rd | 1 | Concepts Of Operating System |
| | 2 | Batch Processing System, Multiprogramming System |
| | 3 | Concept of Time Sharing System |
| | 4 | Compiler vs Interpreter |


Signature of the Faculty

Subject: Computer Application

No. of Days/per week Class allotted: 04

Semester from Date: 25-10-2022 To Date: 20-02-2023

No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|-----------------|-----------|---|
| 4 th | 1 | Features of DOS & UNIX |
| | 2 | Classification of Virus & Prevention, Detection |
| | 3 | Networking Concepts, Goals of Network |
| | 4 | Different Connecting Media & Data Transmission Mode |
| 5 th | 1 | Explain Topology & its types |
| | 2 | Types of Network(LAN, WAN, MAN) |
| | 3 | Explain about HUB, REPEATER, SWITCH, BRIDGE, ROUTER |
| | 4 | Internet Services, E-mail, FTP, Chatting, Online Shopping |
| 6 th | 1 | Different types of Internet Connectivity |
| | 2 | Internet Service Provider |
| | 3 | Concept of File & Folder |
| | 4 | File Access & Storage Methods |

Sneha Chandra
Signature of the Faculty

Subject: Computer Application

No. of Days/per week Class allotted: 04

Semester from Date: 25-10-2022 To Date: 20-02-2023

No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|-----------------|-----------|--|
| 7 th | 1 | Sequential, Direct & ISAM Methods |
| | 2 | Data Capture & Data storage |
| | 3 | Data processing & Retrieval |
| | 4 | Algorithm Concepts |
| 8 th | 1 | Problem Solve using Algorithm |
| | 2 | Flowchart Explanation |
| | 3 | Problem Solving using Flowchart |
| | 4 | Explain about Structured Programming Language |
| 9 th | 1 | Programming language(high level, low level, middle level) |
| | 2 | Constant & Variable with Example |
| | 3 | Operators & Expression with Examples |
| | 4 | Switch Statement with examples |

Shehshik Datta
Signature of the Faculty

Subject: Computer Application

No. of Days/per week Class allotted: 04

Semester from Date: 25-10-2022 To Date: 20-02-2023

No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|------------------|-----------|--|
| 10 th | 1 | Break & continue Statements with examples |
| | 2 | Different types of Loop with Syntax |
| | 3 | Explanation of FOR Loop, WHILE Loop, Do-While Loop |
| | 4 | While Loop vs Do-while Loop |
| 11 th | 1 | Go-to Statements with examples |
| | 2 | Programming like Factorial, Prime numbers |
| | 3 | Programming like palindrome num, Amstrong nums |
| | 4 | Programming like power of number & series number |
| 12 th | 1 | Function Concept in C Programming |
| | 2 | Explain Call by Value vs Call by Reference |
| | 3 | Example of Formal Arguments & Actual Arguments |
| | 4 | Explain Storage Class |

Snehalini Dash
Signature of the Faculty


Subject: Computer Application

No. of Days/per week Class allotted: 04

Semester from Date: 25-10-2022 To Date: 20-02-2023

No. of Weeks: 15

| Week | Class Day | Theory / Practical Topics |
|------------------|-----------|---|
| 13 th | 1 | Concepts of Array |
| | 2 | Types of Array |
| | 3 | Programming on One-dimensional Array |
| | 4 | Explain Sorting with Example |
| 14 th | 1 | Programming on Two-dimensional Array |
| | 2 | Multiplication of Matrix in C language |
| | 3 | Concept of Pointer |
| | 4 | Explain Pointer with example |
| 15 th | 1 | String operation with examples |
| | 2 | String function programming |
| | 3 | Define Structure & Union |
| | 4 | Explain structure & union with examples |


Signature of the Faculty