

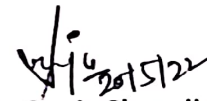
FGM Govt College Adampur
Unit wise Lesson Plan for even Semester 2022
Department : Computer Science

Teacher : Miss SanjuChaudhary

Class : B.Sc. 6th semester

Subject : Computer Graphics

| Sr. No. | Description of Chapters/Topics | Expected Duration | Assignment/Test |
|---------|---|-------------------|---|
| 1. | <p>Introduction :Historical prespective of computer graphics , basic elements of Computer graphics (modeling , Rendering .Animation). Applications of Computer Graphics.</p> <p>Input Devices : Keyboard , Mouse , Light pen , Graphic Tablets , Joystics , Trackball , Flatbed Scanner</p> <p>Hard Copy Devices : Laser printer , Flatbed Plotters</p> <p>Video Display Devices :Pixel. Resolution, Aspect ratio. Refresh Rate and Interlacing. Cathode Ray tube , Flat Panel Display-LCD and Plasma Panel. Raster and Random scan display system.</p> | 1 April 2022 | Assignment-1 in the beginning of last week of May. |
| 2. | <p>Fundamental Techniques in Graphics :Line Generation Algorithms –DDA Algorithm. And Midpoint Circle Algorithm. Polygon Filling Algorithms – Scan Line Algorithm. Viewing & Clipping-point Clipping and Line Clipping. Cohen – Sutherland Line Clipping Algorithm. Polygon Clipping (Sutherland Hodgman Algorithm)</p> | May 2022 | Assignment-2 in the beginning of last week of June. |
| 3. | <p>2-Dimensional Graphics :Cartesian and Homogeneous Co-ordinate system . Geometric Transformations (Translation, Scaling ,Rotation,Reflection).</p> <p>3-Dimensional Graphics : Geometric Transformations (Translation, Scaling , Rotation , Reflection , Mathematics of Projections (Parallel & Perspective)</p> | 15 JUNE 2022 | Minor Test &Revision . |


 Ms. SanjuChaudhary
 (Department of Computer Science)

| Sr. No. | Description of Chapters/Topics | Expected Duration | Assignment/Test |
|---------|---|-------------------|---|
| 1. | <p>Introduction to Python : History and Features of Python programming, python interpreter, variable identifiers and literal , token , keywords, data types , arithimatic operators , membership operators, identify operators, operators precedence, idention and need for idention .</p> <p>Built In functions :input, eval, composition, print, type, round, min & max pow, type conversion, random number, generation mathematical functions . Getting help on a function. Assert Statement .</p> <p>Control Statements : if conditional statement, for and while statements break, continue and pass statements.</p> | 1 April 2022 | Assignment-1 in the beginning of last week of May. |
| 2. | <p>Functions :Function definition and call , function arguments – variable function arguments, default arguments, keyword arguments , arbitrary arguments, command line arguments, global and local variables in same code. Using global variable and local variable with same name.</p> <p>Strings :String as a compound data type . String operations- concentration, repetition, membership operations, slicing operation, string method count, find ,capitalize, title, lower, upper, swapcase, islower, isupper, istitle, replace, isalpha, isdigit, isalnum. String processing examples .</p> | May 2022 | Assignment-2 in the beginning of last week of June. |
| 3. | <p>Lists :List operations, multiplication, concentration, length, indexing, slicing, min, max, sum, membership operators, List functions – append , extend, remove pop, count, index, insert, sort, reverse.</p> <p>Recursion :Recrusive solutions for problems on Numbers, strings and list.</p> <p>Object Oriented Programming :Introduction to classes, method, class object, instance object , method object. Class as abstract data type , data class. Access attributes using functions – gettatar, hasattar, setattar, delattar, built in class,attributes of class objects (-diet-.name—module-).</p> <p>Graphics :Screen objects – points and lines , box, polygon, circle, arc, screen object methods-move-to(). Move-by(), rotate-by(), Text(). Sound(). Play sound(). Stop-sound().</p> | 15 JUNE 2022 | Minor Test &Revision . |

Ms. Sanju Chaudhary
(Department of Computer Science)

Lesson Plan 2022

FGIM Government College, Adampur

Unit wise Lesson Plan for even Semester

Teacher: Ms SANJU CHAUDHARY

subject: List of experiments using PYTHON (Practical)

CLASS - B.Sc VI Sem.
(C.S)

| SRNO | Description of Experiments | Expected Duration | Practical / Test |
|-----------|---|-------------------|--|
| <u>1.</u> | Write a Prog. to Convert decimal number into binary Octal and Hexadecimal no. system using built-in function. | 1 April 2022. | Practice Checked/Practical file |
| <u>2.</u> | Write a Prog. to find the H.C.F of two input no. using function. | | |
| <u>3.</u> | Write a Prog. to slice list. | | |
| <u>4.</u> | Write a Prog to Change or add elements to a list. | | |
| <u>5.</u> | Write a Prog. to display Calender of given month of the year. | | |
| <u>6.</u> | Write a Prog. to Compute factorial of a number using recursion. | 1 May 2022 | Practice. Checked Practical file |
| <u>7.</u> | Write a Prog to reverse the string using recursion. | | |
| <u>8.</u> | Write a Prog. to create Copy of list using recursion | | |
| <u>9.</u> | Write a Prog. to implement Bresenham's line drawing algorithm. | | |

| SrNo | Description of Experiments | Expected Duration | Practical Practice |
|------------|--|-------------------|-------------------------|
| <u>10.</u> | Write a Prog. to implement mid Point circle drawing algorithm. | | |
| <u>11</u> | Write a Prog. to clip a line using Cohen and Sutherland line clipping algorithm. | 25 May | Practice |
| <u>12</u> | Write a Prog. to clip a Polygon using Sutherland Hodgeman algorithm. | 5 June | checked Practical file. |
| <u>13.</u> | Write a Prog. to apply various 2D transformations. | | |

4/20/5/22

(SANJU CHAUDHARY)
Dept of Comp. Science

Lesson Plan-2022

FGM Govt. College, Adampur

Unit wise lesson Plan for even Semester

Name- SANJU CHAUDHARY [1 April to 5 June 2022]

Sub:- E.V.S

CLASS - B, A IInd.

| SR.No. | Description of Topics | Expected Duration | Assignment/ Test |
|--------|---|-------------------|---|
| 1. | <p>UNIT - III</p> <p>Definition of environment Pollution, Causes, effects and control measures of:- Air Pollution, Water Pollution Soil Pollution, Noise Pollution Nuclear Hazard and human health risks:- Solid waste Management causes effects and control measures of Urban and industrial wastes Pollution Case studies: Disaster Management: floods, earthquakes cyclone and landslides: climate Change global warming, acid rain, Ozone layer depletion: different laws related to environment.</p> | 1 April 2022 | I Assignment begining of last Month |
| 2. | <p>Environment Protection Act; wild life Protection Act, Air (Prevention and control of Pollution) Act, water (Prevention and control of Pollution) Act wildlife protection act. forest Conservation Act. International Agreements Montreal & Kyoto Protocol & Nature reserves, tribal Populations and Human Health.</p> | 1 May 2022 | II Assignment begining of last Month. |

UNIT-4

3. Concept of Sustainability & Sustainable development, Water Conservation, rain water harvesting, watershed management, Resettlement and Rehabilitation of Project affected persons
Case Studies: Environment Ethics, Role of Indian and other religions and Cultures in environmental Conservation. Environmental Communication and Public Awareness, Case Studies (eg. CNG Vehicles in Delhi)
Human Population growth: Impact on environment, Human health & welfare
Environmental Movements
Chipko, Silent valley, Bishnoi of Rajasthan

15 JUNE 2022.

Minor Test in the Month. & Revision.

24/5/22

(SANJU CHAUDHARY)
Dept. of Computer Science

Lesson Plan for Even Semester April-June 2021

Department: B.Sc. Computer Science

Name of the Teacher: Vinod Prakash

Subject :- Computer Networks

Class : B.Sc. Computer Science

Semester :- 4th

| Sr. No. | Description of Chapters/ Topics /Units | | Duration |
|---------|---|---|--|
| | COMPUTER NETWORKS | SOFTWARE ENGINEERING | |
| 1 | <p style="text-align: center;">UNIT – I</p> <p>Introduction to Computer Communications and Networking Technologies, Uses of Computer Networks, Network Devices, Nodes, and Hosts, Types of Computer Networks and their Topologies, OSI Reference Model, TCP/IP Reference Model.</p> <p style="text-align: center;">UNIT – II</p> <p>Analog and Digital Communications Concepts: Representing Data as Analog Signals, Representing Data as Digital Signals, Data Rate and Bandwidth, Capacity, Baud Rate; Digital Carrier Systems; Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing.</p> | <p style="text-align: center;">UNIT – I</p> <p>Introduction: Program vs. Software, Software Engineering paradigms, Software Crisis – problem and causes. Phases in Software development: Requirement, Analysis, Software Design, Coding, Testing, Maintenance. Software Development Process Models: Waterfall, Prototype, Evolutionary and Spiral models.</p> <p style="text-align: center;">UNIT – II</p> <p>Software Requirement Analysis and Specifications: Feasibility Study Software Requirements Need for SRS, Characteristics of an SRS, Components of an SRS, Structure of a requirements document, validation and metrics. Problem Analysis, Data Flow Diagram, Data Dictionary, Decision table, Decision trees</p> | <p>April 1st to 30th April</p> |
| | Assessment test, Assignment | | Last week of April |

| | | | |
|-------------------|---|---|--|
| 2 | <p style="text-align: center;">UNIT - III</p> <p>Data Link Layer: Framing, Flow Control, Error Control, Error Detection and Correction, Sliding Window Protocols, Media Access Control, Random Access Protocols, Token Passing Protocols, Token Ring, Ethernet, gigabit Ethernet, token ring, FDDI, Bluetooth and Wi-Fi.</p> <p style="text-align: center;">UNIT - IV</p> <p>Network Layer and Routing Concepts: Virtual Circuits and Datagrams, Routing Algorithms, Flooding, Shortest Path Routing, Distance Vector Routing, Link State Routing, Hierarchical Routing, Congestion Control Algorithms, Internetworking, IPV4 and IPV6.</p> | <p style="text-align: center;">UNIT - III</p> <p>Software Project Planning: Process Planning, Effort estimation, COCOMO model, Project scheduling and Staffing, team structure, Software configuration management, Quality assurance plans, Risk Management, Project monitoring plans. Software Implementation and Maintenance: Type of maintenance, Management of Maintenance, Maintenance Process, maintenance characteristics.</p> <p style="text-align: center;">UNIT- IV</p> <p>Testing: Testing fundamentals, Error, Fault, and Failure, Test Oracle, Test Case and Test Criteria. Psychology of testing, Black Box Testing, Equivalence Class Partitioning, Boundary value analysis, Cause-effect graphing. White box testing, Control flow-based criteria, level of testing, Unit testing, Integration testing, System testing, Validation testing, alpha, beta, and Acceptance testing</p> | <p style="text-align: center;">May 1st to 30th May</p> |
| Assignment | | | |

Lesson Plan

Name of Assistant Professor: - Mr. Narender Kumar
Class: - B.Sc. Computer Science 1st Year 2nd Semester
Subject: - CCsL – 204 Data Structure Using 'C'

| Month | Topics Covered |
|---|---|
| April | Unit 1 (Data Structure Basics, Arrays), Unit 4 (Searching) |
| May | Unit 1 (Stacks, Recursion), Unit 2 (Queues, Linked List), Unit 4 (Sorting) Assignment |
| June (1 st - 15 th) | Unit 3 (Trees and Graphs) Test |


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20.05.2022

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Lesson Plan

Name of Assistant Professor: - Mr. Narender Kumar
Class: - B.Sc. Computer Science 1st Year 2nd Semester
Subject: - CCsL – 205 Computer Organisation

| Month | Topics Covered |
|---|--|
| April | Unit 1 (Data Representation), Unit 2 (Logic Gates) |
| May | Unit 2 (Boolean Algebra), Unit 3 (Combinational Circuits, Sequential Circuits) Test |
| June (1 st - 15 th) | Unit 4 (Basic Computer Organization and Design, Programming the basic Computer, Input-Output Organization) Assignment |


20.05.2022

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