

Lesson Plan

Subject: Computer Graphics CCsL-603

Teacher's Name: DEEPIKA, Asstt. Prof. (Comp. Sci.)

Name of Month	Week Description	Contents
January	Week 1	Introduction: Historical perspective of Computer Graphics, Basic elements of Computer graphics (Modelling,
	Week 2	Rendering. Animation), Applications of Computer Graphics
	Week 3	Input Devices: Keyboard, Mouse, Light Pen, Graphic Tablets
	Week4	Joysticks, Trackball, Flatbed Scanner. Doubt Session
February	Week 5	Hard Copy Devices: Laser Printer, Flatbed Plotters.
	Week 6	Video Display Devices: Pixel, Resolution. Aspect Ratio, Refresh Rate and Interlacing Assignment
	Week7	Cathode Ray Tube, Flat Panel Display-LCD and Plasma Panel. Raster
	Week 8	Random scan display system Doubt session
March	Week 9	Fundamental Techniques in Graphics: Line Generation Algorithms-DDA Algorithm. Bresenham's Line Generation Algorithm.
	Week 10	Circle Generation Algorithms Bresenham's Algorithm and Midpoint Circle Algorithm. Polygon Filling Algorithms-Scan Line Algorithm.
	Week 11	Viewing & Clipping-Point Clipping and Line Clipping, Cohen-Sutherland Line Clipping Algorithm. Test
April	Week 12	Polygon Clipping (Sutherland Hodgman Algorithm Doubt session
	Week 13	2-Dimensional Graphics: Cartesian and Homogeneous Co-ordinate System, Geometric. Transformations (Translation)
	Week 14	Transformations (Scaling, Rotation, Reflection)
	Week 15	3-Dimensional Graphics: Geometric Transformations (Translation. Scaling, Rotation. Reflection).
May	Week 16	Mathematics of Projections (Parallel & Perspective). Doubt session

Lesson Plan

Subject: Computer Networks (C24COS401T)

Teacher's Name: Dr. Sudesh, Asstt. Prof. (comp. sci.)

Name of Month	Contents
January	Data communication: Components, Data representation and Data flow; Network: Uses, Topologies, Network Services, OSI and TCP/IP Reference Models; Network categories: LAN, MAN, WAN; Guided Transmission Media, Wireless Transmission Media, Networking Devices: Hubs, Repeaters, Bridges, Modems, Switches, Routers, and Gateways
February	Data Link Layer-design issues, Framing & Error Handling: Framing Protocols, Error detection and correction mechanisms; Switching Techniques: Circuit Switching, Packet Switching, Message Switching Flow Control Protocols: Stop-and-wait, Sliding Window protocols: Go-back-N and Selective Repeat;
March	Multiple Access Communication: Random Access-ALOHA, Slotted-ALOHA, CSMA, CSMA-CD. Routing algorithms: optimality principle, shortest path, flooding, Distance Vector Routing, Link State Routing, Hierarchical Routing, Congestion control algorithms, Internetworking: IPV4 and IPV6, IP Addressing, ARP, RARP, ICMP.
April	Transport Layer: Transport layer Services: Addressing, Multiplexing, Flow control, Internet Transport Protocols: UDP, TCP, TCP Segment, TCP Connection.
May	Application Layer: Introduction to DNS, FTP, TELNET, HTTP, SMTP, Electronic Mail, WWW.

Lesson Plan

Subject: Internet and Web Design (Semester-II)

Teacher's Name: DEEPIKA, Asstt. Prof. (Comp. Sci.)

Name of Month	Week Description	Contents
January	Week 1	Introduction to Internet: Internet Evolution and Concept, Internet Vs Intranet
	Week 2	Growth of Internet, Internet Service Provider (ISP) & its Function
	Week 3	Connectivity- Dialup, Leased line; URL, Protocols Doubt Session
	Week4	E-MAIL: Email Basics, Address, Features
February	Week 5	Sending & Receiving email, Email Protocols, Labels in Email Doubt Session
	Week 6	Email services providers, Internet chatting - Voice chat Doubt Session, TEST
	Week7	Text chat World Wide Web (www):History of WWW, Web Browser, Web server, Search Engines
	Week 8	working of Search Engine, Web Protocols (HTTP, FTP, SNMP etc.), TCP/IP layer with protocols.
March	Week 9	Web Designing: Steps for developing a Website; contents selection
	Week 10	Webpage, Home page; Domain Names; website publishing.
	Week 11	HTML: Concepts of Hypertext, Versions of HTML, Elements of HTML, Syntax, Tags & Attributes
April	Week 12	Head & Body Sections, Inserting Texts, Images, Hyperlinks, Backgrounds and Color Controls
	Week 13	Different HTML Tags, Table Layout and Presentation Doubt Session
	Week 14	Creating Lists, Use of Font Size & Attributes
	Week 15	List Types and Its Tags, Use of Frames
May	Week 16	Use of Forms in Web Pages Doubt Session

Lesson Plan

Subject: Python Programming CCsL-604

Teacher's Name: Dr. Sudesh, Asstt. Prof. (comp. sci.)

Name of Month	Week Description	Contents
January	Week 1	Introduction to python: history and features of python programming, python interpreter, variables, identifiers and literal, token, keywords, data types
	Week 2	arithmetic operators, relational operators, logical operators, bitwise operators, assignment operators, membership operators, identity operator, operative precedence, comment, indentation
	Week 3	need for indentation Built in functions: input, eval, competition print type round main and max, pow, type conversion
	Week4	random number generation, mathematical functions, getting help on a function, assertive statement Doubt Session
February	Week 5	Control statements: if conditional statement, for and while statement,
	Week 6	break, continue and pass statements. Functions: function definition and call function, arguments-variable function arguments, default arguments, keyword arguments
	Week7	arbitrary arguments, command line arguments, global and local variables, assessing local variable outside Assignment
	Week 8	the scope using global and global variables in the same code using global and local variable with the same name Test
March	Week 9	Strings: string as a compound data type, string operations-concatenation repetition, membership operation, slicing operation,
	Week 10	string methods- count rfind capitalise title lower upper swapcase islower isupper replace isalpha isdigit isalnum, sting processing examples
	Week 11	Lists: list operations- multiplication, concatenation length indexing slicing min, max, sum, membership operator
April	Week 12	list functions- append, extend, remove pop count index insert sort reverse Recursion: recursion solution for problems on numbers, string and list Doubt Session
	Week 13	Object oriented programming: introduction to class method, class object, instance object, method object, class as abstract data type, date
	Week 14	access attributes using functions get ,built in class attributes of class object
	Week 15	Graphics screen objects point and line box polygon circle arc
May	Week 16	screen object methods- move_to(), move_by() rotate_by() text(), sound- sound(), play_sound() stop_sound()

Lesson Plan

Subject: Office Tools (Semester-I/II) Skill Enhancement Course (SEC)

Teacher's Name: DEEPIKA, Asstt. Prof. (Comp. Sci.)

Name of Month	Week Description	Contents
January	Week 1	Operating System - Definition, Functions,
	Week 2	Types of Operating System, Basics of Popular Operating Systems
	Week 3	The User Interface, Exploring Computer, Icons, taskbar, desktop Doubt Session
	Week 4	Using Menu and Menu-selection, managing files and folders
February	Week 5	Control panel – display properties, add/remove software and hardware Test
	Week 6	Common utilities. Basic Word Processing - Introduction to Word Processing
	Week 7	Menus, Creating, Editing & Formatting Document Doubt Session TEST
	Week 8	Spell Checking, Printing Doubt Session
March	Week 9	Advanced Word Processing: Views, Tables, modifying page setup
	Week 10	applying document themes, applying document style sets
	Week 11	Inserting headers and footers Spread Sheet: Elements of Electronics Spread Sheet
April	Week 12	,Applications, Creating and Opening of Spread Sheet, Menus
	Week 13	Manipulation of cells: Enter texts numbers and dates Doubt Session
	Week 14	Cell Height and Widths, copying of cells, Mathematical, Statistical and Financial function
	Week 15	Drawing different types of charts, Sort and Filter Data. Creating Presentation, Type of presentation views
May	Week 16	Using sound, Animation, Working with Objects, Printing Doubt Session