

## SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER

Sophia Girls' College (Autonomous),

Ajmer



Department of Computer Science

Course Plan Dr. Neha Sharma



# SOPHIA GOL'S COLLEGE, AJMER (AUTON MOUS) BCA III (SEMESTER VI) 2021-22

BCA - 605 Internet Tools & Website Development - II

Max. Marks:75 (50Ext; 25 Int)

Min. Marks: 30(20 Ext;10 Int)

### **COURSE PLAN**

Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage
JANUARY	UNIT I PHP — Introduction, Common Uses of PHP, Characteristics of PHP, PHP — Environment Setup Installation on Windows, PHP — Syntax, Running PHP Script from Command Prompt PHP — Variable, Local Variables, Global Variables, Static Variables, Constants, Operator Types, Precedence of Operators	Server side Programming and dynamic WebPages	PPT, Programs,E content,blended learning	To impart knowledge server side programming using PHP	Knowledge Based  What is dynamic webpage?  What is precedence of operator?	Knowledge—40
FEBRUARY	Unit – II PHP: Decision Making: IfElse Statement, Elself Statement, Switch Statement, Loop Types:, while, dowhile, for, for each, break, continue,	Understanding different sections of Webpage and website development	PPT, Programs, Group discussions	To Develop the decision making statement logic under different concepts using XAMP server	Understanding Based What is nested list? Explain by an example.	Understanding-40 Higher Order-20



MARCH	Arrays: Numeric Array, Associative Arrays, Multidimensional Arrays, Strings function, Web Concepts, GET and POST, File Inclusion, File & I/O	How JavaScript can incorporated in HTML document. How to take and process input form then user	PPT, Practical Implementation, Problem solving activities	Design website using both the scripting languages	to divide the webpage into four vertical sections.	
APRIL	PHP: Functions, Cookies, Sessions, Sending, File Uploading, Error and Exception Handling, PHP PHP and MySQL: Connecting to MySQL Database, Create MySQL Database Using PHP, Insert MySQL Database Using PHP, Delete Data to MySQL Database, Retrieving Data from MySQL Database	Use of functions and various objects variable in JavaScript Comparison of code without array and with arrays.	PPT, Practical Implementation,a ssignments	Implement the functions of Date, Math and String objects	Higher Order Thinking Skills Based  Write a code to create a function to take input from user and find its factorial.  Write a code to show use of different math methods.	

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SOPHIA GIRL'S COLLEGE, AJMER (AUTONOMOUS)

M.S Computer Science (Previous) 2021
SEMESTER II (M.Sc. CS. Previous) MCS-202 Computer Graphics

MAX MARKS: 100(70EXT; 30 INT)

MIN. MARKS: 40(28 EXT;12 INT)

#### **COURSE PLAN**

SEM II Month	UNIT/TOPIC	Concepts/facts	Teaching Pedagogy	Learning Outcomes	Questions	Marks Weightage
January	Interactive graphics, passive graphics, advantage of interactive graphics, application, Hardware (Video Display Devices: CRT, DVST, Emmisive & Non Emmisive) & software requirement of computer graphics. Raster and random scan system.	Concept of Computer graphics and its terminologies	PPT, Lecture method, Live Examples	Understand the structure of modern computer graphics systems and Input output Device and implement various algorithms to scan, convert the basic geometrical primitives	Knowledge Based  Define Interactive graphic  What is Emmisive display?  Understanding Based	Knowledge—25 Understanding 45 Higher Order-30



	Algorithm: - Line (DDA algorithm, Bresenham's line algorithm), Circle(Midpoint circle algorithm, Bresenham's line algorithm), Ellipse (Midpoint ellipse algorithm), Area Filling Algorithm (Scan-Line fill, Boundary fill, Flood fill).	Leating of scan line, circle and ellipse generating algorithm			How DDA algorithm is faster than Bresenham's Line algorithm? Justify your answer by using the line attributes.  Give the application areas of CG.	
	Syntax, semantics of propositional logic, syntax and semantics of FOPL, conversion to clausal form.	Logical reasoning and its storage	PPT, Hands on Exercise	Represent knowledge in various ways	<u>Higher Order</u> <u>Thinking Skills</u> <u>Based</u>	
FEBRUARY	representation	transformation	PPT, Hands on Exercise	To define the fundamentals of 2D transformations	Briefly give comparison between different type of transormation.  Explain projection with	



MARCH	Sutherland Line clipping Algorithm, Cyrus-Beck Line clipping Algorithm, Liang-Barsky Line clipping Algorithm, Polygon clipping, Text Clipping.	of clipping		To describe the importance of Clipping,	
Pe	3D display method, Projection (parallel projection, perspective projection), Visible line identification, Visible Surface etection (Back-face, ainter's Algorithm)	3D projection	PPT, Hands on Exercise	viewing and projections	



	Polygon (surface, table, equation, mashes), Polynomial and Spline curves, parallel curve algorithms, Splines Representation	Concept of curves	PPT	To learn the basic principles of 3-	
APRIL	Cubic Spline (Interpolation, Approximation),  Bezier Curves and surfaces, B-Spline and surfaces, Beta- Spline. 3D transformation, rotation, scaling, composite transformation.	Cubic spline concept and Implementation  3D projection transformation cencept	PPT	dimensional transformation along with surface identification and Curves	

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Dr. Sr. Pearl
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