

### 3BCA6-Computer Lab-3

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
-	-	+0/2	+0/2	0	20	80	100

#### Practical List on Web Designing

1. Write an HTML code to display your education details in a tabular format.
2. Write an HTML code to display your CV on a web page.
3. Write an HTML code to create a Home page having three links: About Us OurServices and Contact Us. Create separate web pages for the three links.
4. Write an HTML code to create a login form. On submitting the form the user should get navigated to a profile page.
5. Write an HTML code to create a Registration Form. On submitting the form theUser should be asked to login with this new credentials.
6. Write an HTML code to create your Institute website Department Website andTutorial website for specific subject.
7. Write an HTML code to illustrate the usage of the following:  
Ordered List  
Unordered List  
Definition List
8. Write an HTML code to create a frameset having header navigation andcontent sections.
9. Write an HTML code to demonstrate the usage of inline CSS.
10. Write an HTML code to demonstrate the usage of internal CSS.
11. Write an HTML code to demonstrate the usage of external CSS.
12. Write a Java script to prompt for users name and display it on the screen.
13. Design HTML form for keeping student record and validateit using Java script.
14. Write an HTML program to design an entry form of student details and send itto store at database server like SQL Oracle or MS Access.
15. Write a JavaScript program to display the current day and time in the following format.  
Sample Output : Today is : Tuesday.  
Current time is : 10 PM : 30 : 38
16. Write a JavaScript program to print the contents of the current window.
17. Write a JavaScript program to find the area of a triangle where lengths of the three of its sides are 5, 6, 7.
18. Write a JavaScript program to calculate multiplication and division of two numbers (input from user).

### **Practical List on Multimedia and Animation**

1. Create a PowerPoint slide show that includes the following slides
  - A “homepage” slide with a title and links or buttons to each of your other five pages.
  - A slide that uses a sound effect that is integrally tied to the information on the page
2. Create a PowerPoint slide show that includes the following slides
  - A slide that links to a web page.
  - A slide that has a bulleted list of items that are animated so that the items appear on the page one-at-a-time. Set it up so that each item dims as the next item appears.
3. Using PowerPoint do following exercise.
  - To change your slide layout
  - To add shadows to text
  - To add a button that links to another page or website
4. Simple image editing using Photoshop-
  - Start Photoshop and open the image from your personal drive and try out the different tools in Photoshop
  - Try out the functions like Rotate, Resize, Crop, Zoom
5. Color change, image extraction and merging of images.
6. Make a banner in Photoshop using layers.
7. Creating a logo using Corel Draw.
8. Creating a Visiting card using Corel Draw.
9. Take video footage add some Transitions using Adobe premiere.
10. Take video footage addTitles and Text using Adobe premiere.

### **Practical List on RDBMS using MySQL**

1. Create a table EMP in MYSQL

EmpName	Salary	Age	Country	Email
Anil	5000	45	India	xyz@yahoo.com
Raj kamal	6000	34	USA	dinesh_hyt@hotmail.com
Deepak	2000	33	Nepal	Sunil_ftrxyz@gamil.com
Anujkumar	18000	56	Bhutan	Raj_xyz@gmail.com

2. Write a MySQL statement to insert your record into the above table against each columns.
3. Write a MySQL statement to insert 3 rows in above table by a single insert statement.
4. Write a MySQL statement to change the email and country name for Deepak.
5. Write the MySQL statement to insert a new column “address”.
6. Write the MySQL statement to delete column “Age” in above table.
7. Write the MySQL statement to show those records who’s age >34 .
8. Write a query to get the minimum age from employees table.
9. Write a query to get the average salary and number of employees.
10. Write a query to get the maximum salary and name employee.

**3 B.Sc. (GA) 5**  
**OE-3: Character Animation**

Theory	00	Practical	40	Internal	10	Credits	3
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**COURSE OBJECTIVES**

1. To provide understanding on the concept and usage of Blender
2. Create and manipulate 3D assets in the application Interface
3. Critique visual structures through the use of basic design principles
4. Utilize appropriate content and techniques to conceptualize idea
5. Employ lighting techniques in 3D modeling

**COURSE OUTCOMES (CO)**

1. Recognize types and process of different virtual environment in blender
2. Identify Aesthetic and technical aspects of 3D asset modeling
3. Perform Feature and Function of Blender
4. Generate e-portfolio to display 3D software talent
5. Demonstrate the use of visual simulation

UNIT-1	Character Animation using Blender	L	T	P
1.1	Character Animation (Discussion)	-	1	-
1.2	The Blender Interface (Discussion, Practice)	-	1	1
1.3	Introduction to Box Modeling (Discussion, Practice)	-	1	1
1.4	Intermediate Modeling Techniques (Discussion, Practice)	-	1	1
1.5	Introduction to the Poly by Poly technique (Discussion, Practice)	-	1	1

UNIT-2	Introduction to Materials	L	T	P
2.1	Introduction to Shaders (Discussion, Practice)	-	1	1
2.2	Introduction to Textures (Discussion, Practice)	-	1	1
2.3	Introduction to Normal Maps (Discussion, Practice)	-	1	1
2.4	Introduction to UV-Unwrapping (Discussion, Practice)	-	1	1
2.5	UV unwrapping an image and adding a texture (Practice)	-	-	1

UNIT-3	Introduction to Armatures	L	T	P
3.1	Adding Armatures, (Practice)	-	-	1

<b>3.2</b>	Attaching a mesh to an Armature (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>3.3</b>	Weight Painting (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>3.4</b>	Shape Keys (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>3.5</b>	Video Sequence Editor (Discussion, Practice)	-	<b>1</b>	<b>1</b>

<b>UNIT-4</b>	<b>Particles</b>	<b>L</b>	<b>T</b>	<b>P</b>
<b>4.1</b>	Cloth Simulation (Practice)	-	-	<b>1</b>
<b>4.2</b>	Particles /Water Simulation (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>4.3</b>	Creating hair (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>4.4</b>	Special Effects (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>4.5</b>	Soft Bodies (Discussion, Practice)	-	<b>1</b>	<b>1</b>

<b>UNIT-5</b>	<b>Animating</b>	<b>L</b>	<b>T</b>	<b>P</b>
<b>5.1</b>	Introduction to animating (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>5.2</b>	Creating a Bouncing Ball (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>5.3</b>	Ipo Curve Editor (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>5.4</b>	NLA Editor (Discussion, Practice)	-	<b>1</b>	<b>1</b>
<b>5.5</b>	Rendering (Practice)	-	-	<b>1</b>

### **Practical/Projects/Assignments:**

1. Create a Opening Title of a Short Film
2. Create a promo using blender physics
3. Create a logo animation in blender
4. Create a e-portfolio
5. Make an Animated Flag

### **Suggested Readings:**

1. Blender Activity Book for Beginners: Activity Book for those New to 3D Modeling using Blender\_ by Adriel Samaniego
2. The Complete Guide to Blender Graphics: Computer Modeling & Animation, Fifth Edition by John M. Blain
3. Blender FD 3e (For Dummies) by Jason van Gumster



4. The Complete Guide to Blender Graphics: A Beginner's Guide by John M. Blain\_5. Learning Blender: A Hands-On Guide to Creating 3D Animated Characters 1st Edition by Oliver Villar

**E-Resources:**

1. <https://www.blendernation.com/category/education/tutorials/videotutorials/>
2. <https://www.blenderguru.com/tutorials>
3. <https://www.blendernation.com/category/education/documentation/books/>
4. <https://cgcookie.com/categories/3d/tutorials>

