



RAJALAKSHMI ENGINEERING COLLEGE

An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

ACADEMIC YEAR 2024-2025 ODD SEMESTER



CD23332

LAB MANUAL

SECOND YEAR

THIRD SEMESTER

2024- 2025

ODD SEMESTER

List of Experiments	
1	Design to teach mathematics to the children of 4-5 years age in school in Rural sector
2	Design to help people to sell their handmade products in metro cities
3	Design a social media website and chat
4	Design a publication that support different languages
5	Design a publication that tells comic stories
6	Design an advertisement for mobile company
7	Design an advertisement for any political party with images
8	Design an advertisement for electronic products
9	Design an advertisement for food products
10	Design an interactive website for new institution
11	Design a blog that publish educational post
12	Design an interactive website for hospital management system
13	Design an interactive website for food selling app
Requirements	
Hardware	Intel i3 or AMD processor with 64-bit support;2 GHz or faster processor with SSE 4. or later- 8 GB RAM -Windows 10 64-bit (version 1909)or later - 1.5 GB of GPU memory -4 GB of available hard-disk space
Software	Figma, Adobe Photoshop, HTML and CSS
Operating System	Windows

LAB PLAN

CD23332-DESIGN PROCESSES AND PERSPECTIVES LAB

Exercise no.	Exercise Name	Required Hours
1	Design to teach mathematics to the children of 4-5 years age in school in Rural sector	3
2	Design to help people to sell their handmade products in metro cities	6
3	Design a social media website and chat	3
4	Design a publication that support different languages	3
5	Design a publication that tells comic stories	3
6	Design an advertisement for mobile company	3
7	Design an advertisement for any political party with images	9
8	Design an advertisement for electronic products	6
9	Design an advertisement for food products	6
10	Design an interactive website for new institution	6
11	Design a blog that publish educational post	6
12	Design an interactive website for hospital management system.	3
13	Design an interactive website for food selling app.	3

Course Outcomes (COs)**Course Name: Design Processes and Perspectives****Course Code: CD19341**

Outcome 1	Understand the various graphic design thinking process and phases
Outcome 2	Analyze and choose between various visual components
Outcome 3	Designing and communicating visual components
Outcome 4	Apply design concepts for media publishing and advertising
Outcome 5	Create website using different design concepts

CO-PO – PSO matrices of course

PO/PSO CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CD19341.1	3	1	3	2	3	2	3	2	1	1	1	3	1	3	1
CD19341.2	3	-	3	-	3	-	-	-	-	-	1	1	1	3	1
CD19341.3	3	3	3	2	3	-	-	-	-	-	-	1	1	3	2
CD19341.4	1	3	3	3	3	3	2	2	2	2	2	2	1	3	3
CD19341.5	1	3	3	3	3	3	2	2	2	2	2	2	1	3	3
Average	2.2	2.0	3.0	2.0	3.0	1.6	1.4	1.0	1.0	1.0	1.2	1.8	1.0	3.0	2.0

Note: Enter correlation levels 1,2 or 3 as defined below:

1: Slight(Low) 2: Moderate(Medium) 3: Substantial(High) If there is no correlation, put “-“

Expt. No.:1

Date:

Design to teach mathematics to the children of 4-5 years age in school in Rural sector

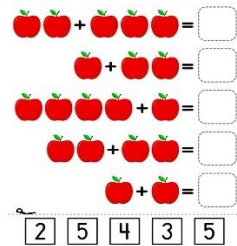
Aim: To design a user interface for teaching mathematics to the children of 4-5 years age in school in the rural sector.

Tools: Figma, Photoshop

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos.
3. Gradient color panel has to be used.
4. Buttons and attractive fonts have been used.
5. Proper navigation should be done to move from one page to another.
6. Login page has to be included.

Output:



Result: Thus the **Design to teach mathematics to the children of 4-5 years age in school in Rural sector**

Expt. No.:2

Date:

Design to help people to sell their handmade products in metro cities

AIM: To Design an UI that can help people to sell their handmade products in metro cities

Tools: Figma, Photoshop

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos.
3. Gradient color panel has to be used.
4. Buttons and attractive fonts have been used.
5. Proper navigation should be done to move from one page to another.
6. Login page has to be included.

Output:



Result: Thus the **Design to help people to sell their handmade products in metro cities**

Expt. No.:3

Date:

Design a social media website and chat

Aim: To design a user interface for teaching mathematics to the children of 4-5 years age in school in the rural sector.

Tools: Figma, Photoshop

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos
3. Gradient color panel has to be used
4. Buttons and attractive fonts have been used
5. Proper navigation should be done to move from one page to another
6. Login page has to be included

Output:



Result: Thus the **Design a social media website and chat**

Expt. No.:4

Date:

Design a publication that support different languages

Aim: To design a publication that support different language

Tools: Adobe Photoshop

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos
3. Gradient color panel has to be used
4. Use different languages to display the content.
5. Use images that support the content.
6. Align white spaces between the contents.

Output:



Result:

Thus the **design a publication that support different languages**

Expt. No.:5

Date:

Design a publication that tells comic stories

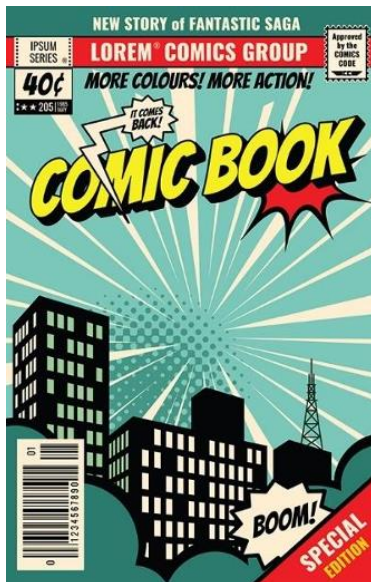
Aim: To design a Publication That Tells Comic Stories

Tools: Adobe Photoshop

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos
3. Gradient color panel has to be used.
4. Use different languages to display the content.
5. Use images that support the content.
6. Align white spaces between the contents.

Output:



Result:

Thus the design a publication that tells comic stories

Expt. No.:6

Date:

Design an advertisement for mobile company

Aim: To design an advertisement for mobile company

Tools: Adobe Photoshop, Canva

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos
3. Gradient color panel has to be used
4. Images that support the context must be placed.
5. Written context must be emphasized.
6. Appropriate color palette must be used.

Output:



Result:

Thus the **design an advertisement for mobile company**

Expt. No.:7

Date:

Design an advertisement for any political party with images

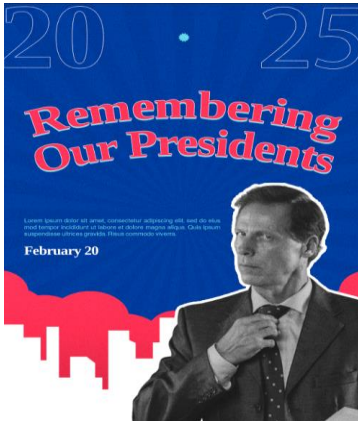
Aim: To design an advertisement for any political party with images

Tools: Adobe Photoshop, Canva.

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos.
3. Gradient color panel has to be used.
4. Images that support the context must be placed.
5. Written context must be emphasized.
6. Appropriate color palette must be used.

Output:



Result:

Thus the **design an advertisement for any political party with images**

Expt. No.:8

Date:

Design an advertisement for electronic products

Aim: To design an advertisement for electronic products

Tools: Adobe Photoshop, Canva

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos.
3. Gradient color panel has to be used .
4. Images that support the context must be placed.
5. Written context must be emphasized.
6. Appropriate color palette must be used.

Output:



Result:

Thus the **design an advertisement for electronic products**

Expt. No.:9

Date:

Design an advertisement for food products

Aim: To design an advertisement for food products

Tools: Adobe Photoshop, Canva

Steps:

1. Create a new background layer.
2. Create containers for placing images, icons and logos.
3. Gradient color panel has to be used .
4. Images that support the context must be placed.
5. Written context must be emphasized.
6. Appropriate color palette must be used.

Output:



Result:

Thus the **design an advertisement for food products**

Expt. No.:10

Date:

Design an interactive website for new institution

Aim: To design interactive website for new institution

Tools: HTML, CSS

Steps:

1. Create a document of type HTML.
2. Craft a style sheet for better design.
3. Include the link of the stylesheet to the HTML file.
4. Assign a title for each page.
5. Add the required styles and attributes for the HTML tags.
6. Include action tag to navigate from one page to another.

Output:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>New Institution</title>
```

```
  <link rel="stylesheet" href="styles.css">
```

```
</head>
```

```
<body>
```

<header>

<nav>

<div class="logo">New Institution</div>

<ul class="nav-links">

About Us

Courses

Contact

</nav>

</header>

<main>

<section class="hero">

<div class="carousel">

<div class="carousel-controls">

<button class="prev" onclick="changeSlide(-1)">⏪</button>

<button class="next" onclick="changeSlide(1)">⏩</button>

</div>

</div>

</section>

```
<section id="about">
```

```
  <h2>About Us</h2>
```

```
  <p>Welcome to our institution, where we foster innovation and excellence in  
education.</p>
```

```
</section>
```

```
<section id="courses">
```

```
  <h2>Our Courses</h2>
```

```
  <ul>
```

```
    <li>Computer Science</li>
```

```
    <li>Business Administration</li>
```

```
    <li>Graphic Design</li>
```

```
    <li>Biology</li>
```

```
  </ul>
```

```
</section>
```

```
<section id="contact">
```

```
  <h2>Contact Us</h2>
```

```
  <form>
```

```
    <label for="name">Name:</label>
```

```
    <input type="text" id="name" name="name" required>
```

```
    <label for="email">Email:</label>
```



```
<input type="email" id="email" name="email" required>

<label for="message">Message:</label>

<textarea id="message" name="message" required></textarea>

<button type="submit">Send</button>

</form>

</section>

</main>


<footer>

  <p>&copy; 2024 New Institution. All rights reserved.</p>

</footer>


<script src="script.js"></script>

</body>

</html>
```

Result:

Thus the design an interactive website for new institution

Expt. No.:11

Date:

Design A Blog That Publish Educational Post

Aim: To design a blog that publishes educational post

Tools: HTML, CSS

Steps:

1. Create a document of type HTML.
2. Craft a style sheet for better design.
3. Include the link of the stylesheet to the HTML file.
4. Assign a title for each page.
5. Add the required styles and attributes for the HTML tags.
6. Include action tag to navigate from one page to another.

Output:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Educational Blog</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Educational Blog</h1>
  <nav>
    <ul>
      <li><a href="#home">Home</a></li>
```

```

        <li><a href="#about">About</a></li>
        <li><a href="#contact">Contact</a></li>
    </ul>
</nav>
</header>

<main>
    <section class="blog-posts">
        <article>
            <h2>Understanding Quantum Physics</h2>
            <p class="date">Posted on November 10, 2024</p>
            <p>Quantum physics is a branch of physics that studies the behavior of
matter and energy at the smallest scales...</p>
            <a href="#" class="read-more">Read More</a>
        </article>

        <article>
            <h2>The Importance of Mathematics in Everyday Life</h2>
            <p class="date">Posted on November 5, 2024</p>
            <p>Mathematics plays a crucial role in our daily lives, from budgeting to
cooking. Here's how...</p>
            <a href="#" class="read-more">Read More</a>
        </article>

        <article>
            <h2>History of Artificial Intelligence</h2>
            <p class="date">Posted on November 1, 2024</p>
            <p>Artificial Intelligence has come a long way since its inception. This post
explores its evolution...</p>
            <a href="#" class="read-more">Read More</a>
        </article>
    </section>

    <aside class="sidebar">
        <h3>About Me</h3>
        <p>Hi! I'm a passionate educator and writer dedicated to sharing knowledge
and insights on various subjects.</p>

        <h3>Categories</h3>
        <ul>
            <li><a href="#physics">Physics</a></li>
            <li><a href="#mathematics">Mathematics</a></li>
            <li><a href="#ai">Artificial Intelligence</a></li>
            <li><a href="#history">History</a></li>
        </ul>
    </aside>

```

</main>

<footer>

<p>© 2024 Educational Blog. All rights reserved.</p>

</footer>

</body>

</html>

CSS code:

body {

font-family: Arial, sans-serif;

line-height: 1.6;

margin: 0;

padding: 0;

}

header {

background: #4CAF50;

color: white;

padding: 20px;

text-align: center;

}

header h1 {

margin: 0;

}

nav ul {

list-style: none;

padding: 0;

}

nav ul li {

display: inline;

margin: 0 15px;

}

nav a {

color: white;

text-decoration: none;

}

main {

display: flex;

padding: 20px;

```
}
```

```
.blog-posts {  
  flex: 3;  
  margin-right: 20px;  
}
```

```
.sidebar {  
  flex: 1;  
  background: #f4f4f4;  
  padding: 20px;  
  border-radius: 5px;  
}
```

```
article {  
  margin-bottom: 20px;  
  padding: 10px;  
  border: 1px solid #ddd;  
  border-radius: 5px;  
}
```

```
article h2 {  
  margin: 0;  
}
```

```
.date {  
  font-size: 0.9em;  
  color: #777;  
}
```

```
.read-more {  
  display: inline-block;  
  margin-top: 10px;  
  color: #4CAF50;  
  text-decoration: none;  
}
```

```
footer {  
  text-align: center;  
  padding: 20px;  
  background: #333;  
  color: white;  
  position: relative;  
  bottom: 0;  
  width: 100%;  
}
```

Result:

Thus the **design A Blog That Publish Educational Post**

Expt. No.:12

Date:

Design An Interactive Website For Hospital Management System

Aim: To design interactive website for hospital management system

Tools: HTML, CSS

Steps:

1. Create a document of type HTML.
2. Craft a style sheet for better design.
3. Include the link of the stylesheet to the HTML file.
4. Assign a title for each page.
5. Add the required styles and attributes for the HTML tags.
6. Include action tag to navigate from one page to another.

Output:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Educational Blog</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Educational Blog</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
```

```
<li><a href="#about">About</a></li>
<li><a href="#contact">Contact</a></li>
</ul>
</nav>
</header>

<main>
  <section class="blog-posts">
    <article>
      <h2>Understanding Quantum Physics</h2>
      <p class="date">Posted on November 10, 2024</p>
      <p>Quantum physics is a branch of physics that studies the behavior of
matter and energy at the smallest scales...</p>
      <a href="#readmore" class="read-more">Read More</a>
    </article>

    <article>
      <h2>The Importance of Mathematics in Everyday Life</h2>
      <p class="date">Posted on November 5, 2024</p>
      <p>Mathematics plays a crucial role in our daily lives, from budgeting to
cooking. Here's how...</p>
      <a href="#readmore" class="read-more">Read More</a>
    </article>

    <article>
      <h2>History of Artificial Intelligence</h2>
      <p class="date">Posted on November 1, 2024</p>
      <p>Artificial Intelligence has come a long way since its inception. This post
explores its evolution...</p>
      <a href="#readmore" class="read-more">Read More</a>
    </article>
  </section>

  <aside class="sidebar">
    <h3>About Me</h3>
    <p>Hi! I'm a passionate educator and writer dedicated to sharing knowledge
and insights on various subjects.</p>

    <h3>Categories</h3>
    <ul>
      <li><a href="#physics">Physics</a></li>
      <li><a href="#mathematics">Mathematics</a></li>
      <li><a href="#ai">Artificial Intelligence</a></li>
      <li><a href="#history">History</a></li>
    </ul>
  </aside>
```


</main>

<footer>

<p>© 2024 Educational Blog. All rights reserved.</p>

</footer>

</body>

</html>

body {

font-family: Arial, sans-serif;

line-height: 1.6;

margin: 0;

padding: 0;

}

header {

background: #4CAF50;

color: white;

padding: 20px;

text-align: center;

}

header h1 {

margin: 0;

}

nav ul {

list-style: none;

padding: 0;

}

nav ul li {

display: inline;

margin: 0 15px;

}

nav a {

color: white;

text-decoration: none;

}

main {

display: flex;

padding: 20px;

}

```
.blog-posts {  
  flex: 3;  
  margin-right: 20px;  
}  
  
.sidebar {  
  flex: 1;  
  background: #f4f4f4;  
  padding: 20px;  
  border-radius: 5px;  
}  
  
article {  
  margin-bottom: 20px;  
  padding: 10px;  
  border: 1px solid #ddd;  
  border-radius: 5px;  
}  
  
article h2 {  
  margin: 0;  
}  
  
.date {  
  font-size: 0.9em;  
  color: #777;  
}  
  
.read-more {  
  display: inline-block;  
  margin-top: 10px;  
  color: #4CAF50;  
  text-decoration: none;  
}  
  
footer {  
  text-align: center;  
  padding: 20px;  
  background: #333;  
  color: white;  
  position: relative;  
  bottom: 0;  
  width: 100%;  
}
```

Result:

Thus the **design An Interactive Website For Hospital Management System**

Expt. No.:13

Date:

Design An Interactive Website For Food Selling App

Aim: To design a interactive website for food selling app

Tools: HTML, CSS

Steps:

1. Create a document of type HTML.
2. Craft a style sheet for better design.
3. Include the link of the stylesheet to the HTML file.
4. Assign a title for each page.
5. Add the required styles and attributes for the HTML tags.
6. Include action tag to navigate from one page to another.

Output:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Food Selling App</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <div class="logo">Foodie App</div>
    <nav>
      <ul>
        <li><a href="#menu">Menu</a></li>
        <li><a href="#about">About Us</a></li>
```

```

        <li><a href="#contact">Contact</a></li>
    </ul>
</nav>
</header>

<main>
    <section class="hero">
        <h1>Delicious Food Delivered to You</h1>
        <p>Order your favorite meals with just a few clicks!</p>
        <a href="#menu" class="cta-button">Browse Menu</a>
    </section>

    <section id="menu">
        <h2>Our Menu</h2>
        <div class="menu-item">
            
            <h3>Pizza</h3>
            <p>A delicious cheese and tomato pizza with fresh ingredients.</p>
            <span>$12.99</span>
            <button>Add to Cart</button>
        </div>
        <div class="menu-item">
            
            <h3>Burger</h3>
            <p>Juicy beef burger with lettuce, tomato, and cheese.</p>
            <span>$9.99</span>
            <button>Add to Cart</button>
        </div>
        <div class="menu-item">
            
            <h3>Sushi</h3>
            <p>Fresh sushi rolls with a variety of fillings.</p>
            <span>$15.99</span>
            <button>Add to Cart</button>
        </div>
    </section>

    <section id="about">
        <h2>About Us</h2>
        <p>At Foodie App, we are passionate about delivering delicious meals right to your doorstep. Our chefs use only the finest ingredients to ensure quality and taste.</p>
    </section>

    <section id="contact">
        <h2>Contact Us</h2>
        <form>

```

```
<label for="name">Name:</label>
<input type="text" id="name" name="name" required>

<label for="email">Email:</label>
<input type="email" id="email" name="email" required>

<label for="message">Message:</label>
<textarea id="message" name="message" required></textarea>

<button type="submit">Send Message</button>
</form>
</section>
</main>

<footer>
  <p>&copy; 2024 Foodie App. All rights reserved.</p>
</footer>

</body>
</html>
```

CSS code:

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
}

header {
  background: #333;
  color: white;
  padding: 10px 20px;
  display: flex;
  justify-content: space-between;
  align-items: center;
}

.logo {
  font-size: 24px;
  font-weight: bold;
}

nav ul {
  list-style: none;
  display: flex;
}
```

```
nav ul li {  
    margin: 0 15px;  
}
```

```
nav a {  
    color: white;  
    text-decoration: none;  
}
```

```
.hero {  
    background: url('hero-background.jpg') no-repeat center center/cover;  
    color: white;  
    padding: 100px 20px;  
    text-align: center;  
}
```

```
.cta-button {  
    background: #FF5733;  
    color: white;  
    padding: 10px 20px;  
    text-decoration: none;  
    border-radius: 5px;  
}
```

```
#menu {  
    padding: 20px;  
}
```

```
.menu-item {  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    margin: 10px;  
    padding: 10px;  
    text-align: center;  
}
```

```
.menu-item img {  
    width: 100%;  
    height: auto;  
}
```

```
button {  
    background: #4CAF50;  
    color: white;  
    border: none;
```

```
padding: 10px;  
border-radius: 5px;  
cursor: pointer;  
}
```

```
section {  
padding: 20px;  
}
```

```
footer {  
background: #333;  
color: white;  
text-align: center;  
padding: 10px 0;  
}
```

Result:

Thus the **design An Interactive Website For Food Selling App**