



# **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<br>CO  | PO<br>1 | PO<br>2 | PO<br>3 | PO<br>4 | PO<br>5 | PO<br>6 | PO<br>7 | PO<br>8 | PO<br>9 | PO<br>10 | PO<br>11 | PO<br>12 | PSO<br>1 | PSO<br>2 | PSO<br>3 |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| CD19341.<br>1 | 3       | 1       | 3       | 2       | 3       | 2       | 3       | 2       | 1       | 1        | 1        | 3        | 1        | 3        | 1        |
| CD19341.<br>2 | 3       | -       | 3       | -       | 3       | -       | -       | -       | -       | -        | 1        | 1        | 1        | 3        | 1        |
| CD19341.<br>3 | 3       | 3       | 3       | 2       | 3       | -       | -       | -       | -       | -        | -        | 1        | 1        | 3        | 2        |
| CD19341.<br>4 | 1       | 3       | 3       | 3       | 3       | 3       | 2       | 2       | 2       | 2        | 2        | 2        | 1        | 3        | 3        |
| CD19341.<br>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:**

# Lines



Parallel =



Perpendicular +



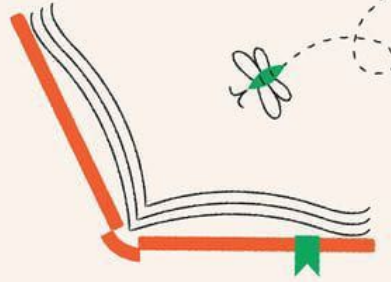
Intersecting ✕



# Angles



Right  $\angle$



Obtuse  $\angle$



Acute  $\angle$

**Result:**

**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:**

Maxwell Street Presbyterian Church

# ARTISAN FAIR

... jewelry ... baskets ... children's clothes ... autographed books ... stained glass  
... hand knitted items ... handmade angel pins ... fairtrade products ...



**SATURDAY DEC 1**

10-3pm

**SUNDAY DEC 2**

9:30-10:30am  
and 11:30-1pm

**REMEMBER:** Some items are one of a kind-so shop early for the best selection.

180 E Maxwell St. Lexington, KY 40515 • [www.maxpres.org](http://www.maxpres.org) • 859.255.1074



**Result:**

**Expt. No.:3**

**Date:**

### **Design a social media website and chat**

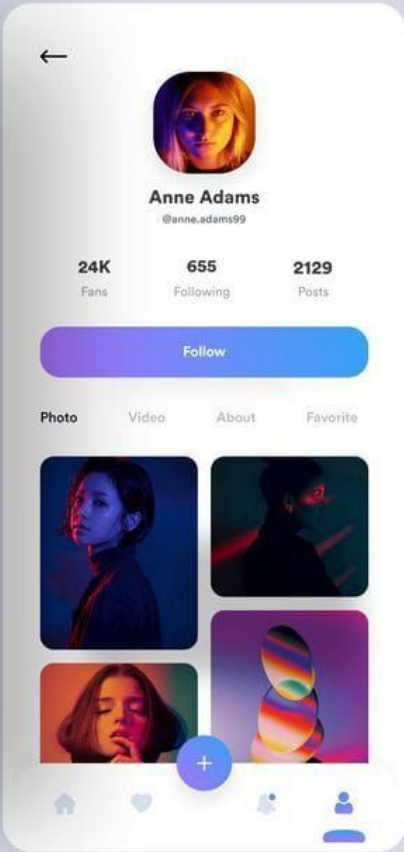
**Aim:** To design a user interface for teaching mathematics to the children of 4-5 years age in school in the rural sector.

**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:**

**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:**

**Expt. No.:5**

**Date:**

**Design a publication that tells comic stories**

**Aim:** To design a Publication That Tells Comic Stories

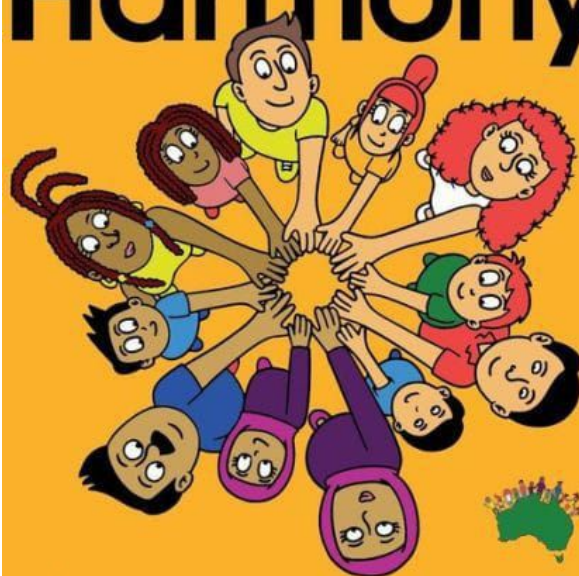
**Tools:** Adobe Photoshop

**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:**

# Inviting Harmony



A story of belonging in Australia by Cary Lee

**Result:**

**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:**



## DO YOU VALUE **AUTHENTICITY?**

Get your dream gadget at the  
best market price.

iPhone | Samsung | Smart Watches  
Phone Accessories and More.



**GREAT  
OFFERS**

VISIT OUR STORE:  
**0701611121 | 0782513833**

LOCATED AT:  
📍 Ivory Plaza, Shop B28  
📍 Pioneer Mall, Shop PB92



**Result:**

**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:**

LET'S MOVE ST. KAST FORWARD



**MARTIN  
BLAKAS**

**FOR ST. KAST**



Henimil ilmuweru pe reimoum  
[www.grafilker.net](http://www.grafilker.net)

<http://www.frip.in>

**Result:**

**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:**

JETE

VOUCHER  
DISC **50**%\*

UNTUK PEMBELIAN DI ONLINE  
STORE JETE INDONESIA

- \* Syarat & Ketentuan Berlaku
- \* Voucher berlaku 1 minggu setelah pengisian form
- \* Hanya bisa dipakai 1x



**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:**

# *Super Tasty* **BURGER**

PRICE ONLY  
**BDT. 449**



Experience burger perfection with every bite—juicy, flavorful patties layered with fresh, crisp toppings, and nestled in perfectly toasted buns. It's not just a meal; it's a mouthwatering journey that satisfies your every craving.

**FOR ORDER I CALL- 0123 244 555**  
[www.websiteName.com](http://www.websiteName.com)

**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:**





**Result:**

**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:**

**Result:**

**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.

```

/* Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: Arial, sans-serif;
  color: #333;
  line-height: 1.6;
}

/* Header */
header {
  background-color: #4CAF50;
  padding: 1em 0;
  color: #fff;
}

header .container {
  display: flex;
  justify-content: space-between;
  align-items: center;
}

header h1 {
  font-size: 1.8em;
}

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

header nav ul li {
  margin-left: 1.5em;
}

header nav ul li a {
  color: #fff;
  text-decoration: none;
  font-weight: bold;
}

/* Hero Section */
.hero {
  background: url('images/institution-bg.jpg') no-repeat center center/cover;
  height: 60vh;
  display: flex;
  justify-content: center;
  align-items: center;
  color: #fff;
  text-align: center;
}

.hero-text h2 {
  font-size: 2.5em;
  margin-bottom: 0.5em;
}

.hero-text p {
  font-size: 1.2em;
  margin-bottom: 1em;
}

```

```

.btn:~hover {
  background-color: #388E3C;
}

/* Section Styling */
section {
  padding: 2em;
  text-align: center;
}

.about, .courses, .faculty, .contact {
  background-color: #f8f8f8;
  margin: 1em 0;
}

.course-list, .faculty-list {
  display: flex;
  justify-content: center;
  gap: 2em;
  flex-wrap: wrap;
}

.course, .faculty-member {
  background-color: #fff;
  border: 1px solid #ddd;
  border-radius: 5px;
  padding: 1em;
  width: 250px;
  text-align: center;
}

.faculty-member ~img {
  width: 100px;
  border-radius: 50%;
}

.contact form {
  display: flex;
  flex-direction: column;
  gap: 0.5em;
  max-width: 400px;
  margin: 0 auto;
}

.contact input, .contact textarea {
  padding: 0.5em;
  border-radius: 5px;
  border: 1px solid #ddd;
}

.contact button {
  background-color: #4CAF50;
  color: #fff;
  padding: 0.8em;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}

.contact button:~hover {
  background-color: #388E3C;
}

```

**Output:**

**Result:**

**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:

## Result

```
/* Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: Arial, sans-serif;
  color: #333;
  line-height: 1.6;
}

/* Header */
header {
  background-color: #4CAF50;
  padding: 1em 0;
  color: #fff;
}

header .container {
  display: flex;
  justify-content: space-between;
  align-items: center;
}

header h1 {
  font-size: 1.8em;
}

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

header nav ul li {
  margin-left: 1.5em;
}

header nav ul li a {
  color: #fff;
  text-decoration: none;
  font-weight: bold;
}

/* Hero Section */
.hero {
  background: url('images/institution-bg.jpg') no-repeat center center/cover;
  height: 60vh;
  display: flex;
  justify-content: center;
  align-items: center;
  color: #fff;
  text-align: center;
}

.hero-text h2 {
  font-size: 2.5em;
  margin-bottom: 0.5em;
}

.hero-text p {
  font-size: 1.2em;
  margin-bottom: 1em;
}

.btn {
  display: inline-block;
  background-color: #4CAF50;
  color: #fff;
  padding: 0.8em 1.5em;
  text-decoration: none;
  border-radius: 5px;
  transition: background-color 0.3s ease;
}

.btn:hover {
  background-color: #388E3C;
}

/* Section Styling */
section {
  padding: 2em;
  text-align: center;
}

.about, .courses, .faculty, .contact {
  background-color: #f8f8f8;
  margin: 1em 0;
}

.course-list, .faculty-list {
  display: flex;
  justify-content: center;
  gap: 2em;
  flex-wrap: wrap;
}

.course, .faculty-member {
  background-color: #fff;
  border: 1px solid #ddd;
  border-radius: 5px;
  padding: 1em;
  width: 250px;
  text-align: center;
}

.faculty-member img {
  width: 100px;
  border-radius: 50%;
}

.contact form {
  display: flex;
  flex-direction: column;
  gap: 0.5em;
  max-width: 400px;
  margin: 0 auto;
}

.contact input, .contact textarea {
  padding: 0.5em;
  border-radius: 5px;
  border: 1px solid #ddd;
}
```

```
,  
  
.contact input, .contact textarea {  
  padding: 0.5em;  
  border-radius: 5px;  
  border: 1px solid #ddd;  
}  
  
.contact button {  
  background-color: #4CAF50;  
  color: #fff;  
  padding: 0.8em;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;  
}  
  
.contact button: hover {  
  background-color: #388E3C;  
}  
  
/* Footer */  
footer {  
  background-color: #333;  
  color: #fff;  
  padding: 1em 0;  
  text-align: center;  
}
```