**TITLE:** **“Simple Calculator Design”**

**1. AIMS/BENEFITS OF THE MICRO-PROJECT:**

To prepare a simple calculator design using GUI(Graphical User Interface)application development using GAD.

**2. COURSE OUTCOME ADDRESSED**

1. Use visual studio IDE to design application.
2. use data binding in GUI application.
3. Develop application using form control and its events.

**3. PROPOSED METHODOLOGY**

**Step 1: Study the micro project.**

First of all, group members will go through the micro project list. The discussion will be done in group. After the topic will be finalized. The guide will help to clear the doubts and problem in project making.

**Step 2: Collecting information from internet, books.**

The work will be distributed among the group members. And different format will be collected for report making like certificate, teacher evaluation sheet, annexure-A and B

**Step 3: Finalizing the formats in collaboration.**

All group members will go through sample collected, then format will be

finalized.

**Step 4: Finalizing the topic.**

After finalizing the format, the topic will be discussed. the topic will be discussed unanimously and as per the availability of material.

**Step 5: Listing the stationary items required for project along with**

**budget.**

Everyone will give a stationary list required for report writing.

**Step 6: Discussion of budget in group and finalize the amount.**

The group members will discuss their views and the budget will be finalized.

**Step 7: Collection of photos and information/contents.**

Every group member will collect their data from different websites, books and from personal visit to industry and give it to project guide for proof reading. After proofreading the data along with photo will be finalized and every group member will be proceed for their job.

**Step 8: Printing/Drawing.**

Printing or drawing will be done and shown to the project guide.

**Step 9: Explanation/Preparation.**

During oral/vi-va project will be explained.

**4. ACTION PLAN**

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| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Details of Activity** | **Planned Start**  **Date** | **Planned Finish**  **Date** | **Name of**  **Responsible Team**  **Members** |
| **1.** | Gathering  Information | 15/02/2023  Week 1–understanding project  Week 2 – Week 3 finding information  Week 4 – writing in word file | 22/02/2023 | Kshirsagar Yogesh Dattatraya. |
| **2.** | Implementation of  Code | 23/03/2023  Week 1–understanding scope of project  Week 2 – Week 3 coding  Week 4 – testing and error handling | 14/03/2023 | Kshirsagar Yogesh Dattatraya. |
| **3.** | Report Writing | 15/04/2023  Week 1–understanding title and aim of project  Week 2 – Week 3  Writing report  Week 4 – adding output and applications | 29/04/2023 | Kshirsagar Yogesh Dattatraya. |

**5. RESOURCES REQUIRED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.** | **Name of Resource** | **Specification** | **Qty.** | **Remarks** |
| **1.** | Computer System | Computer with minimum  2 GB RAM and Windows  Operating System | **1** |  |
| **2.** | Software | MS Word, Visual Studio Express | **1** |  |
| **3.** | Any other resources used | Keyboard, mouse. | **1** |  |

**6. NAME OF THE TEAM MEMBERS WITH ROLL NO.**

|  |  |  |  |
| --- | --- | --- | --- |
| Roll No | Name of student | Enrollment no. | Seat no. |
|  |  |  |  |
| 29 | Kshirsagar Yogesh Dattatraya | 2101180277 | 396417 |
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