|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Contents** | **Page No.** |
| **1** | **Annexure I– Micro Project Proposal** | **1-2** |
| 1.Aims/Benefits of the Micro-Project | 1 |
| 2. Course Outcome Addressed | 1 |
| 3.Proposed Methodology | 1 |
| 4. Action Plan | 2 |
| 5. Resources Required | 2 |
| 6. Name of Team Members with Roll No.’s | 2 |
| **2** | **Annexure II – Micro Project Report** | **3-8** |
| 1.Rationale | 3 |
| 2.Aims/Benefits of the Micro-Project | 3 |
| 3.Course Outcome Achieved | 3 |
| 4. Literature Review | 4 |
| 5.Actual Methodology Followed | 5 |
| 5.1 Flow chart | 5 |
| 5.2 Source code | 6-8 |
| 6.Actual  Resources Used | 8 |
| 7.Outputs of Micro-Projects | 9 |
| 8. Skill developed / Learning out of this Micro-Project | 10 |
| 9. Applications of this Micro-Project | 10 |

**Annexure I**

**Micro Project Proposal**

**“{{MICROPROJECT\_TITLE}}”**

**1. Aims/Benefits of the Micro-Project:**

1. Install Linux Operating System & Configure it.

2. Execute Process Command for Performing Process management Operations.

3. Use Operating System Tools to performing various Functions

**2. Course Outcome Addressed:**

1) CO1 - Gain an understanding of different types of operating systems and their functionalities.

2) CO2 – Comprehend the requirements and design considerations for various types of operating systems.

3) CO3 – Analyze the strengths and weaknesses of different operating system types in different contexts.

4) CO4 – Apply the knowledge of operating systems to select an appropriate system for specific requirements or scenarios.

**3. Proposed Methodology:**

{{PROPOSED\_METHODOLOGY\_INFO}}

**4. Action Plan**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Details of Activity** | **Planned**  **Start date** | **Planned**  **Finish date** | **Name of Responsible Team Members** |
| 1 | Search the topic | 29/08/2022  4:00pm-5:00pm | 05/09/2022  4:00pm-5:00pm |  |
| 2 | Search the information | 12/09/2022  4:00pm-5:00pm | 19/09/2022  4:00pm-5:00pm |  |
| 3 | Algorithm developing | 26/09/2022  4:00pm-5:00pm | 03/10/2022  4:00pm-5:00pm |  |
| 4 | Flowchart developing | 10/10/2022  4:00pm-5:00pm | 15/10/2022  4:00pm-5:00pm | {{STUDENT\_NAME}} |
| 5 | Function making | 31/10/2022  4:00pm-5:00pm | 07/11/2022  4:00pm-5:00pm |  |
| 6 | Coding developing | 14/11/2022  4:00pm-5:00pm | 21/11/2022  4:00pm-5:00pm |  |
| 7 | Debugging | 28/11/2022  4:00pm-5:00pm | 05/12/2022  4:00pm-5:00pm |  |
| 8 | Finalizing Project with its report | 12/12/2022  4:00pm-5:00pm | 19/12/2022  4:00pm-5:00pm |  |

**5. Resources Required:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of resource / material** | **Specification** | **Quantity** | **Remarks** |
| 1 | Computer | WINDOWS 11, 8GB RAM, 160GB HDD | 1 |  |
| 2 | Operating System | WINDOWS 11 | 1 |  |
| 3 | Compiler | Turbo C/GCC/VS code | 1 |  |
| 4 | Browser | Chrome | 1 |  |

**Names of Team Members with Roll No.’s:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.**  **No.** | **Enrollment No.** | **Name of Team Member** | **Roll No.** |
| 1 | {{STUDENT\_ENR}} | {{STUDENT\_NAME}} | {{STUDENT\_ROLLNO}} |

**{{TEACHER\_NAME}}**

**Name and Signature of the Teacher**

**Annexure – II**

**Micro-Project Report**

**“{{MICROPROJECT\_TITLE}}”**

1. **Rationale:**

{{RATIONALE}}

**2. Aims/Benefits of the Micro-Project:**

1. Understanding the computer operating system mechanism.

2. To break down larger projects into smaller, manageable tasks or sub-projects.

3. To understand which algorithm is used in operating system to priories the process.

**3. Course Outcomes Achieved:**

1) CO1 - Understanding of job scheduling techniques and resource allocation mechanisms in batch systems.

2) CO2 – Understanding of time-sharing concepts, context switching, and handling user interactions.

3) CO3 – Understanding of real-time scheduling algorithms, task prioritization, and meeting deadlines.

4) CO4 – Familiarity with CPU scheduling algorithms and memory management in multi-programmed systems.

5) CO5 – Familiarity with inter-processor communication, synchronization, and load balancing techniques in multiprocessor systems.

**4. Literature Review:**

{{

MICROPROJECT\_SUBJECT

}}

**5 Actual Methodology Followed:**

**5.1 Flow Chart:**

{{IMG1}}

{{IMG2}}

**5.2 Source Code:**

**6. Actual Resources Used:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Name of resource / material** | **Specification** | **Quantity** | **Remarks** |
| 1 | Computer | WINDOWS 11,8GB RAM, 160GB HDD | 1 |  |
| 2 | Operating System | WINDOWS 11 | 1 |  |
| 3 | Compiler | Turbo C/GCC/VS code | 1 |  |
| 4 | Browser | Chrome | 1 |  |

**7. Outputs of Micro-Projects:**

**8. Skill developed / Learning out of this Micro-Project:**

There are so many thing that we learn from {{MICROPRJECT\_TITLE}} Micro-project of

1. {{SK\_LINE1}}.

2. {{SK\_LINE2}}. .

3. {{SK\_LINE3}}.

4. {{SK\_LINE4}}.

5. {{SK\_LINE5}}. .

**9. Applications of this Micro-Project:**

1. {{APPLN\_LINE1}}.
2. {{APPLN\_LINE2}}.
3. {{APPLN\_LINE3}}.

\*\*\*\*\*\*\*\*\*