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**Annexure I**

**Micro Project Proposal**

**“{{MICROPROJECT\_TITLE}}”**

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

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

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

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

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

**2. Course Outcome Addressed:**

1. {{MANNUAL\_LINE\_1}}
2. {{MANNUAL\_LINE\_2}}
3. {{MANNUAL\_LINE\_3}}
4. {{MANNUAL\_LINE\_4}}
5. {{MANNUAL\_LINE\_5}}
6. {{MANNUAL\_LINE\_6}}

**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:**

{{IMG}}

**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 this 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}}.

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