**Project Initialization and Planning Phase**

| Date | 20 June 2024 |
| --- | --- |
| Team ID | 740019 |
| Project Name | 3D Printer Material Prediction Using Machine Learning |
| Maximum Marks | 3 Marks |

**Define Problem Statements (Customer Problem Statement Template):**

Users struggle to select optimal 3D printing materials for specific applications. A machine learning model predicts the best materials, improving print quality, efficiency, and reducing trial-and-error costs.

**Example:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Problem**  **Statement (PS)** | **I am**  **(Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| 3D Printer Material Prediction Using Machine Learning | |  | | --- | | Working on 3D  printing project |  |  | | --- | |  | | Predict the best material for 3D printing | There are many materials to choose from, each with different properties | It is difficult to manually select the optimal material for specific printing needs | Overwhelmed and uncertain about achieving the best printing results |