DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

# PROJECT PROPOSAL

## Project Title: - IOT-enabled Smart Home System.

## 2. Project Scope: - The project's scope includes creating, modeling, and implementing an Internet of Things-enabled smart home system that improves energy efficiency and security. It involves setting up secure communication protocols like MQTT, specifying the needs for the system, and integrating sensors and actuators with a microcontroller. The project also includes creating a user-friendly mobile app for remote control, assessing the system's performance, and modeling it in Proteus. The scope also includes evaluating initial findings and thinking about potential future additions, with the ultimate objective of transferring the system from simulation to actual implementation.

## 3. Requirements: -

1. Proteus

2. MQTT dashboard

3. Blynk Dashboard

4. Knowledge of IOT sensors and protocols.

**4. STUDENTS DETAILS**

|  |  |  |
| --- | --- | --- |
| **Name** | **UID** | **Signature** |
| Sehajpreet Kaur | 21BCS4518 |  |
| Baby Monal | 21BCS4526 |  |

**5. APPROVAL AND AUTHORITY TO PROCEED**

We approve the project as described above, and authorize the team to proceed.

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Signature** |
| Ms. Amanpreet Kaur | Project Supervisor |  |