1. **Project Title:**

Digitization of battery management system and charging of batteries using solar panels.

1. **Domain / Field of Specialization:**

Power Electronics and drives / Battery System Engineering / Control System / IoT.

1. **Project Definition:**

The aim of this project is to digitalized the energy storing, dissipating, controlling and converting system (like batteries, Battery Management System and Solar Panel Respectively) by introducing concept of “Internet of Things” (IoT), Cloud Computing and displaying it on display (i.e. on Website / Local monitor LCD display) and make it simple to understand and manageable to the consumer.

1. **Introduction:e**

High energy costs drive the development of power system with increased efficiency and effectiveness. Batteries are being used in hybrid vehicle and renewable energy applications.