 **SRI RAMAKRISHNA ENGINEERING COLLEGE**

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with ‘A’ Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001: 2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.

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| **Evaluation of Mini Project Work**  **Year/Section : II/ C Semester : IV** | | | |
| **Title of the Project** | | | **Academic Year** |
| Battery Management for Electric Vehicles | | | 2020 – 2021 |
| **Project Team Members** | | | **Supervisor** |
| R. SRIMAN BALAJI (1902230)  A. M. SRISHUWETHA (1902232)  S. I. THIRUMALINI (1902246)  S. I. ABUTHALHA (1904006) | | | Ms. S. Niveda  Assistant Professor (OG)/ ECE |
| **Abstract** | | | |
| The battery is a fundamental component of electric vehicles, which represent a step forward towards sustainable mobility. Lithium chemistry is now acknowledged as the technology of choice for energy storage in electric vehicles. In this paper, we have implemented and tested the monitoring system for battery powered Electric Vehicles (EV). This system evaluates and displays the battery temperature, charging/discharging current and State of Charge (SOC) for the considered model battery. For monitoring purpose, digital and analog sensors with microcontrollers are used. The battery information and the obtained results explaining the main characteristics of the system are presented by photographs and some experimental results are given by the LCD screen. And the results are sent to the user immediately through SMS. | | | |
| **Strengths and Limitations of the Project Work** | | | |
| **Strength:**   * Step by step battery discharge is monitored thoroughly. * Alert messages are sent to the owner/driver of the electric vehicle. * Also, using the GPS, the location of the vehicle will be shared to the owner/driver. * Avoids wastage of time. * Easy to recharge/replace the battery when needed.   **Limitations:**   * Only lower range of battery can be sensed (i.e., 25V). | | | |
| **PEO:** I, II, III | **PSO:** 1 | **Program Outcomes:** 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12 | |
|  |  | **Signature of Project Guide** | |

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**