### **INRTODUCTION**

- 1.1 Introduction
- 1.2 Objectives of the study
- 1.3 State of study
- 1.4 Study outline

### **Renewable Energy Technology**

- 2.1 Renewable Energy
- 2.2 Criteria of Choosing RE
- 2.3 Solar Energy (SE)
- 2.4 Necessity of SE
- 2.5 Distribution of solar energy
- 2.6 Solar Radiation
- 2.7 Angle Definition
- 2.8 SE Utilization

### Photovoltaic (PV) Power System

- 3.1 PV Cell
- 3.2 Theory of PV Cell
- 3.3 Working Principle of PV Cell
- 3.4 Types of PV Cell
- 3.5 Equivalent Circuit of PV Cell
- 3.6 Characteristics of PV Cell
- 3.7 Solar Power Storage System
- 3.8 Charge Controller

### Methodology and Rationality of the study

- 4.1 Methodology
- 4.2 Necessity of Mobility in Wheel Chair
- 4.3 Necessity of Motor driven Wheel Chair
- 4.4 Prospect of Solar-based Wheel Chair

## **Project Designing**

- 5.1 Design Considerations
- 5.2 Design Phases
- 5.3 Design Flow Chart
- 5.4 Major Components
- 5.5 Selection of Wheel Chair and its Characteristics
- 5.6 Complete project picture

### **Data Analysis**

- 6.1 Data Accumulation
- 6.2 RPM Calculation
- 6.3 Result

### **Conclusion and Recommendation**

- 7.1 Conclusion
- 7.2 Limitations
- 7.3 Recommendations
- 7.4 Future work