OBJECTIVE OF THE PRESENT WORK

- To develop a low cost & accurate measurement system for measuring Distortion Factor, Radius of curvature and Reflectance of all types of rear view mirrors (Flat & Convex) and automatically analyze the results in a report.

- To properly select the hardware required for the system such as CCD Camera, lens, PC configuration, Frame grabber card.

- To select a proper development platform for software development with proper GUI.

- To study the meaning of Distortion Factor in detail and arrive at a suitable algorithm to measure this parameter accurately.

- To study the meaning of Radius of Curvature in detail and arrive at a suitable algorithm to measure this parameter accurately.

- To study the meaning of Reflectance in detail and arrive at a suitable algorithm to measure this parameter accurately.

- To develop the software based on the algorithms decided for measuring these parameters.

- To design the required mechanical arrangement required for the measurement of these three parameters.

- To integrate the hardware and the software along with the mechanical arrangement.

- To test this system for different types of mirrors and under different conditions.

- To develop software for report generation and integrate it with the measurement software.