ORIENTATION OF THE THESIS

This thesis is divided into eight chapters.

**Chapter 1:** Discussion on diabetes mellitus, controlled drug delivery systems, matrix tablets, transdermal drug delivery systems and objective of the work.

**Chapter 2:** Deals with drug profiles of Active Pharmaceutical Ingredients (Glipizide and Glimepiride), Polymers used (Aloe barbadensis miller, Guar gum, Ficus bengalensis, Ficus carica, Ficus glomerata and Povidone) and past work done were discussed.

**Chapter 3:** Deals with a detailed description of Materials and equipment used, methods for preparing matrix tablets and matrix type transdermal patches.

**Chapter 4:** Discussed with the evaluation results obtained from the matrix tablets and transdermal patches

**Chapter 5:** Deals with discussion of results obtained from the matrix tablets and transdermal patches

**Chapter 6:** Summary of the methods and conclusion of the study

**Chapter 7:** References used in the present investigation

**Chapter 8:** Publications (International and national) and Paper Presentations