Content

| <i>Item</i> | Page No. |
|--|----------|
| Acknowledgement | i-ii |
| List of Abbreviations | iii-v |
| Abstract | vi-ix |
| Chapter 1: Introduction and Literature Review | 1-38 |
| Chapter 2: Aims and Objectives | 39-40 |
| Chapter 3: Materials and Methods | 41-53 |
| Chapter 4: Experiments, Results and Discussion | 54-165 |
| Chapter 5: Summary and Conclusion | 166-171 |
| References | 172-196 |
| List of thesis related published papers | |
| List of other published papers | |