CONTENTS:

Certificate 1

Acknowledgement 2

Contents 3

1. *Chapter 1*
   1. Introduction 4
   1.1 Nanoparticle 5
   1.2 Semiconductor Nanoparticle 7
   1.3 Doped semiconductor nanoparticle 12
   1.4 Theoretical Aspects 13
2. Chapter 2
   2 Synthesis Process 17
   2.1 Preparation process 18
   2.2 Synthesis of the smple 19
3. Chapter 3
   3. Characterization 20
   3.1 UV vis-spectra of the sample 21
   3.2 Result and discussion 23
4. Chapter 4
   4.1 Conclussion 26
   4.2 Application and future prospects 27
   4.3 Future Plan 28

References 29