
CONTENTS

| | |
|---|------------|
| Declaration | i |
| CERTIFICATE | ii |
| Acknowledgments | iii |
| List of Abbreviations | vi |
| Organization of the Thesis | x |
| 1 INTRODUCTION, LITERATURE REVIEW AND PRE-LIMINARIES | 1 |
| 1.1 Introduction | 1 |
| 1.2 Literature Review | 2 |
| 1.3 Aims and Objectives | 7 |
| 1.4 Preliminaries | 8 |
| 1.5 Neutrosophic Functions | 10 |
| 1.6 Soft Set, Hypersoft Set and Neutrosophic Hypersoft Set | 12 |
| 1.7 Neutrosophic Group | 15 |
| 1.8 Neutrosophic Topology | 16 |

| | | |
|----------|--|------------|
| 1.9 | Neutrosophic Bitopological Space | 19 |
| 1.10 | Neutrosophic Topological Group | 20 |
| 2 | NEUTROSOPHIC SEMI CONTINUOUS AND NEUTROSOPHIC ALMOST CONTINUOUS MAPPING | 21 |
| 3 | NEUTROSOPHIC BITOPOLOGICAL GROUP | 38 |
| 4 | NEUTROSOPHIC ALMOST BITOPOLOGICAL GROUP | 48 |
| 5 | PLITHOGENIC NEUTROSOPHIC HYPERSOFT ALMOST TOPOLOGICAL GROUP | 61 |
| 6 | NEUTROSOPHIC MULTI TOPOLOGICAL GROUP | 74 |
| 7 | SUMMARY | 96 |
| | BIBLIOGRAPHY | 98 |
| | List of Publications | 119 |