



Contents

CONTENTS

	Page No.
INTRODUCTION	1
REVIEW OF LITERATURE	7
CHAPTER-1 GRADATION OF OPENNESS	20
1.1 Fuzzy sets and fuzzy topological spaces	20
1.2 Gradation of openness: fuzzy topology	26
1.3 Fuzzy closure operator	28
CHAPTER-2 INTUITIONISTIC GRADATION OF OPENNESS	30
2.1 Intuitionistic fuzzy sets	30
2.2 Intuitionistic fuzzy topological spaces	34
2.3 Intuitionistic gradation of openness	38
CHAPTER-3 SOME PROPERTIES OF (r, s)-T_0 AND (r, s)-T_1 SPACES	42
3.1 Preliminaries and definitions	42
3.2 Some properties of product intuitionistic fuzzy topological spaces	46
3.3 Some properties of (r, s) - T_0 and (r, s) - T_1 spaces	62
SUMMARY AND CONCLUSION	83
REFERENCES	85