

Conclusion:

After discovery of fuzzy topology, different aspects of such spaces have been developed by several investigators. This study is also on development of the theory of fuzzy topological space. We defined an operation γ on fuzzy topology T and studied its some related topological concepts like fuzzy γ -open set, (γ, γ') -open sets, fuzzy γ -compactness, γ -continuous function, fuzzy (γ, β) -continuous functions, fuzzy γ -closed(open) functions, fuzzy (γ, β) -closed(open) functions, fuzzy (γ, β) -homeomorphism, fuzzy γ -closed graphs etc. in the light of the notion of quasi-coincidence, Q-neighbourhoods and fuzzy point in a fuzzy setting and explored different properties of these notions. In chapter III to V, we notice that certain results of several research publications namely fuzzy closure, fuzzy θ -closure, fuzzy δ -closure, fuzzy compactness, fuzzy almost compactness, fuzzy nearly compactness, fuzzy open(closed) function, fuzzy continuity, fuzzy θ -continuity, fuzzy δ -continuity, fuzzy closed graphs, fuzzy strongly closed graphs and so on are considered as corollaries of the results of this research. The study is expected to generate and add new concepts in terms of γ -operations and the ways and means to meet them in a practical way. We hope that our contribution will enrich the field of fuzzy topology.