



## INTISARI

### SUBGRUP FUZZY INTUITIONISTIK ATAS NORM ( $t$ -NORM DAN $s$ -NORM)

Oleh

RIZKA 'ABID FADHIILAH

20/466544/PPA/06110

Subgrup fuzzy dapat diperumum menjadi subgrup fuzzy intuitionistik dan subgrup fuzzy atas  $t$ -norm. Lebih lanjut, subgrup fuzzy intuitionistik dan subgrup fuzzy atas  $t$ -norm dapat diperumum menjadi subgrup fuzzy intuitionistik atas norm ( $t$ -norm dan  $s$ -norm). Pada tesis ini, dipelajari sifat-sifat subgrup fuzzy intuitionistik dan subgrup fuzzy atas  $t$ -norm yang merupakan hasil pengembangan sifat-sifat subgrup fuzzy. Selanjutnya, sifat-sifat kedua konsep tersebut dikembangkan menjadi sifat-sifat subgrup fuzzy intuitionistik atas norm ( $t$ -norm dan  $s$ -norm). Diperoleh hasil bahwa sifat subgrup fuzzy tetap berlaku pada subgrup fuzzy intuitionistik, tetapi belum tentu berlaku pada subgrup fuzzy atas  $t$ -norm. Selain itu, diperoleh hasil bahwa sifat subgrup fuzzy intuitionistik belum tentu berlaku pada subgrup fuzzy intuitionistik atas norm ( $t$ -norm dan  $s$ -norm), sedangkan sifat subgrup fuzzy atas  $t$ -norm tetap berlaku pada subgrup fuzzy intuitionistik atas norm ( $t$ -norm dan  $s$ -norm).



## ABSTRACT

### INTUITIONISTIC FUZZY SUBGROUPS WITH RESPECT TO NORMS ( $t$ -NORM AND $s$ -NORM)

By

RIZKA 'ABID FADHIILAH

20/466544/PPA/06110

Fuzzy subgroups can be generalized into intuitionistic fuzzy subgroups and fuzzy subgroups over  $t$ -norm. Furthermore, intuitionistic fuzzy subgroups and fuzzy subgroups over  $t$ -norm can be generalized into intuitionistic fuzzy subgroups with respect to norms ( $t$ -norm and  $s$ -norm). In this thesis, we study the properties of intuitionistic fuzzy subgroups and fuzzy subgroups over  $t$ -norm which are the result of extending the properties of fuzzy subgroups. Afterwards we extend the properties of the two concepts into the properties of intuitionistic fuzzy subgroups with respect to norms ( $t$ -norm and  $s$ -norm). The results show that the properties of fuzzy subgroups still hold for intuitionistic fuzzy subgroups, but not necessarily hold for fuzzy subgroups over  $t$ -norm. In addition, the results show that the properties of intuitionistic fuzzy subgroups do not necessarily hold for intuitionistic fuzzy subgroups with respect to norms ( $t$ -norm and  $s$ -norm), whereas the properties of fuzzy subgroups over  $t$ -norm still hold for intuitionistic fuzzy subgroups with respect to norms ( $t$ -norm and  $s$ -norm).