

Workshop on Comparative Analysis of K populations with Non Parametric for Research in Social Sciences and Education

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ABSTRACT

The data obtained from research in the fields of social science and education are often in the form of categorical data, for example nominal and ordinal. Categorical data can be analyzed using both parametric and nonparametric statistical approaches. However, often categorical data, whether from the social, educational, or other fields, do not follow a normal distribution or the variance is not constant. This causes the parametric statistical approach to be less precise, so one solution is to use a nonparametric approach. This is the basis for conducting Community Service activities in the form of a population comparison analysis workshop with a nonparametric approach for social science research and education. This activity was attended by practitioners who graduated from S1 and students of various postgraduate study programs in Indonesia. The workshop was held online for two days with the method of providing material and direct demonstration of the R program. This training begins with the delivery of material on a nonparametric approach to the comparison of k independent populations along with a demonstration of using the R software. On the second day, the material presented is a nonparametric approach to the comparison of k dependent populations along with a demonstration of using the R software. The data used as examples are data in social science research and education. Based on the results of questionnaires, observations and questions and answers with the training participants, it was seen that the participants were enthusiastic about participating in this training activity. Participants can use orders from various tests in a nonparametric approach to independent and dependent population k cases, especially related to social science research and education data and can provide an accurate interpretation of the output of the R program.

Kata Kunci: *non parametric statistics, social and educational research, R software*