

ABSTRACT

SYIFA NURHIDAYATI. 2025. *THE INFLUENCE OF EXPLANATION DRIVEN INQUIRY LEARNING MODEL ON STUDENTS' SCIENTIFIC EXPLANATION SKILL ON HUMAN MOVEMENT SYSTEM MATERIAL (EXPERIMENTAL STUDY IN CLASS XI SAINTEK AT MAN 1 KOTA TASIKMALAYA IN THE 2024/2025 ACADEMIC YEAR*. Biology Education Department. Faculty of Teacher Training and Education. Siliwangi University. Tasikmalaya.

This research aims to determine the effect of explanation driven inquiry learning model on students' scientific explanation skill on human movement system material in class XI SAINTEK MAN 1 Tasikmalaya City. The population in this research were all 5 classes of class XI SAINTEK with the number of students 146 people and the sample was taken by non-probability sampling in the form of purposive sampling, namely class XI SAINTEK 4 as the experimental class with 27 students and class XI SAINTEK 5 as the control class with 25 students. The research method used is quasi experiment. The research design used a non-equivalent control group design and data collection was carried out with a written test in the form of 8 scientific explanation skill essay questions. The data analysis technique used in this study was the independent t-test with the help of IBM SPSS Statistics 26 for windows software with a significance level of 5%. Based on hypothesis testing, the explanation driven inquiry learning model has a significance effect of 0,00 or a significance value $< 0,05$ on scientific explanation skills. Judging from the average score of the students' scientific explanation skills test, the experimental class is superior to the control class. So it can be concluded that the explanation driven inquiry learning model has a positive effect, it can improve students' scientific explanation skills on the material on human movement system in class XI SAINTEK MAN 1 Kota Tasikmalaya.

Keywords: *scientific explanation skill, explanation driven inquiry, human movement system*