

ABSTRACT

Annisa Amelia Nurfajriah, 2024. *The Diversity of Fern Species (Pteridophyta) in Cimanggu Nature Park West Java.* Supervisor I Dr. Yusuf Ibrahim, M.Pd., M.P. and supervisor II Dr. Hj. Mia Nurkanti, M.Kes.

*Cimanggu Nature Tourism Park is a nature conservation area for tourism and nature recreation. Data on the diversity of fern species in the Cimanggu Nature Park Area, West Java, is still low. The purpose of this study is to find out the types of fern plants in the Cimanggu Nature Tourism Park Area, West Java. The method used in this study is descriptive with the design of the belt transect. Taking sample conducted with method purposive sampling. There were 9 quadrants measuring 10 x 10 meters, with each quadrant having a 5 sub-plot measuring 2 x 2 meters. The results of the study found 26 species of fern plants divided into 2 classes, 4 orders, and 13 families. Based on the results of the calculation using the Shannon-Wiener index (H'), the index of fern species diversity $H' = 2.948$, is classified as a medium category. The highest INP value is *Asplenium caudatum* Forst., which is 55.64%, while *Adiantum diaphanum* Blume has the lowest INP value of 2.41%.*

Keywords: *Cimanggu Nature Park, Diversity, Fern*