

ABSTRACT

YAYU AZMI INDRIANI. 2024. MAPPING OF FIELD LABORATORIES OF THE FABACEAE FAMILY IN MOUNT GALUNGGUNG AS A LEARNING MEDIA. Departement of Biology Education. Faculty of Teacher Training and Education. Siliwangi University. Tasikmalaya.

This research aims to create a field laboratory mapping of Fabaceae family plants on Mount Galunggung as a learning medium. This research uses qualitative, exploratory methods with survey techniques which are divided into 3 research stations based on their height, namely Station 1 (695 – 753 masl), Station 2 (727 – 1063 masl), and Station 3 (1064 – 1151 masl). Primary data in this research was obtained directly in the field, while secondary data was obtained from various credible sources such as articles, journals and books. The stages of this research include planning and preparation, implementation, data collection, and data analysis. Research was conducted on Mount Galunggung in February 2024. The research results show that the Fabaceae family found in the Mount Galunggung area is 2 sub-families, namely the Caesalpinioideae sub-family and the Faboideae sub-family, the most widely distributed sub-family is the Caesalpinioideae sub-family with a percentage of 93% consisting of the species Calliandra houstoniana (80%), Mimosa pudica (11%), and Mimosa pigra (2%) and the sub-family Faboideae with a percentage of 7% consisting of the species Centrosema virginianum (3.3%), Desmodium adscendens (2.7%), Aeschynomene indica (1%). Environmental variations at each station including altitude, temperature, air humidity, light intensity, pH and soil moisture, and wind speed greatly influence plant distribution. Mount Galunggung is an ideal place to use as a field laboratory to study plants in the Fabaceae family which have diverse characteristics. The conclusions of the research results are presented in the form of digital and analog maps processed using ArcGIS and Google Earth Pro technology which can be accessed in print or the link https://bit.ly/Pemetaan_familiaFabaceae_GunungGalunggung_2024. This mapping has the potential to be an effective and efficient learning medium for Biology Education students to gain direct experience.

Keywords: fiels laboratory mapping, Fabaceae family, Mount Galunggung, learning media