

## ABSTRACT

**RAGHIB AZRI KRISNA.** The development of the Android-based ornamental plants herbs and shrubs field Guide as a Learning resource for biological students. Study Program of Biology Education, Faculty of Mathematics and Natural Sciences, State University of Jakarta.

Botany is a science that learns about plants, one of which is ornamental plants. Studying botany closely relates to the process of identifying plant species using field books. However, the commonly used field books are unappealing and many mention floral features to identify plants to the species level, whereas plants do not every time flowering. So, from the problem is conducted research and development Manual of the field of herbs and shrub ornamental plants and Android-based with a key determination of using other than the flower organ is the leaf organ. This research aims to develop and know the effectiveness of the Learning Resource Field Guide book Ornamental herbs and shrub Android-based. Research was conducted on June 2018 to November 2019. The research validators include media experts, material experts, linguists, students of the biology department of 2017 who have already taken the course of the Botany Phanerogam. The research methods used are Research and Development (R&D). The steps of this research are preliminary research and data collection, planning, product making, product feasibility testing, and product effectiveness testing. The results of the study showed that the learning resources developed in the form guide Book of herbal ornamental plants and Android-based perdu is worthy to be used as a source of learning in the study of the Botany Phanerogam especially in identifying Plants and is effective in improving learning outcomes.

**Keywords:** Botany fanerogam, field guide, android, learning resources