

ABSTRACT

Roselva Theresia Hernawati Manalu, IDN 4191131019 (2023). Development of Learning Media Based Android Assisted by Smart Apps Creator on Atomic Structure and Periodic System Elements Material.

Learning media is one of the developments in information technology that has an impact on the world of education. As a result, the education sector must be able to use technology to create multimedia-based learning media that are more appealing, interactive, and comprehensive. The purpose of this research and development is to describe the preparation step and feasibility (validity) of the Android based learning media for improving student learning interest through learning media using an Android-based teaching model developed in general chemistry learning of atomic structure and periodic system elements material using the 4D development model. This research and development resulted Android based learning applications with a capacity of 28.3 MB "Funchem" that has been declared valid (appropriate) with the goal of creating learning applications that are accurate and concise for usage by students. Validity is met based on the assessment of the validators of material experts and media experts with the feasibility level for media eligibility is 87.5% and for material eligibility is 85.6%, putting it in the highly feasible category for both media and material. The results of the questionnaire to obtain student responses towards the developed Android-based learning media are 78.5% and stated into the "strongly agree" category, indicating that Android-based learning media is assisted by Smart Apps Creator with the name "FunChem" on atomic structure and periodic system elements material suitable for use as a learning media and for improving student learning interest.

Keywords: Learning Media, 4D Model, Atomic Structure, Periodic System Elements, Android based Learning, Smart Apps Creator.