

**THE DEVELOPMENT OF LEARNING MEDIA “ADOBE ANIMATE” TO
INCREASE STUDENTS’ LEARNING OUTCOMES IN
HYDROCARBON MATERIAL**

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ABSTRACT

Research had been carried out to develop a Learning Media using ADDIE model with the aims to find out the media feasibility and the students’ learning outcomes after being taught using developed learning media. The research samples were obtained using purposive sampling techniques and the selected sample was class of XI IPA 2 from SMAN 7 Medan. The results showed that: (1) learning media validation results based on BSNP, the average content eligibility is 4.67, language eligibility is 4.67, presentation eligibility is 4.73, graphic eligibility is 4.73, with an average of 4.68; it means that the learning media developed is feasible to use based on the BSNP standard criteria. (2) Right-tailed t-test value obtained $t_{\text{count}} = 13.26$ while the t_{table} value at the significance level $\alpha = 0.05$ is 1.699, and $t_{\text{count}} > t_{\text{table}}$ ($13.258 > 1.699$). The criteria for the hypothesis test indicate that the t_{count} is in the critical region, so H_a is accepted and H_0 is rejected, which means that the increase of students’ learning outcomes on the use of learning media that has been developed is greater than the KKM value.

Key Words: Research & Development (R&D), Learning Media, Learning Outcomes, Hydrocarbon