

# **PENGEMBANGAN VIDEO PEMBELAJARAN BERBASIS *DISCOVERY LEARNING* MATERI FOTOSINTESIS, PROSES PALING PENTING DI BUMI PADA MATA PELAJARAN IPAS SISWA KELAS IV DI SD NO. 4 BENOA TAHUN AJARAN 2024/2025**

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## **ABSTRAK**

Penelitian ini bertujuan untuk mendeskripsikan rancang bangun produk Video Pembelajaran berbasis *Discovery Learning*, mengetahui kualitas Video Pembelajaran menurut penilaian ahli, uji perorangan, dan uji kelompok kecil, mengetahui efektivitas media video Pembelajaran berbasis *Discovery Learning*. Jenis penelitian yang dilakukan adalah penelitian pengembangan dengan menggunakan model ADDIE (*Analyze, Design, Development, Implementation, Evaluation*). Metode pengumpulan data menggunakan kuesioner/angket dan metode tes. Teknik analisis data yang digunakan analisis deskriptif kuantitatif dan statistik inferensial. Hasil penelitian mengemukakan bahwa rancang bangun video pembelajaran berbasis *Discovery Learning* berupa video pembelajaran dalam bentuk link *youtube/drive* dengan menggunakan aplikasi *Canva dan Inshot*. Penilaian dari ahli rancang bangun memperoleh skor 92,5%, ahli isi/materi memperoleh skor 97,5%, ahli desain instruksional memperoleh skor 93,18%, ahli media pembelajaran memperoleh skor 92,5%, uji perorangan pada 3 orang siswa memperoleh skor 94,16% dan uji kelompok kecil pada 9 orang siswa memperoleh skor 93,88% dengan kualifikasi sangat baik. hasil  $t_{hitung}$  sebesar 12,967.  $t_{hitung}$  tersebut kemudian dibandingkan dengan  $t_{tabel}$  pada taraf signifikansi 5% dengan derajat kebebasan pembilang  $n-1$ . Diketahui  $dk = (n-1) = (26-1) = 25$ . Harga  $T_{tabel}$  untuk  $dk$  25 dengan taraf signifikansi 5% adalah 2,060. Sehingga, hasil menunjukkan bahwa  $T_{hitung} > T_{tabel}$  oleh karena itu,  $H_0$  ditolak dan  $H_1$  diterima, yang berbunyi hasil rata-rata posttest peserta didik lebih dari nilai BSKAP. Dengan demikian dapat disimpulkan bahwa video pembelajaran berbasis *Discovery Learning* efektif untuk diterapkan pada materi fotosintesis, proses paling penting di bumi pada mata pelajaran IPAS siswa kelas IV di SD No. 4 Benoa tahun ajaran 2024/2025.

**Kata Kunci:** ADDIE, Video Pembelajaran, *Discovery Learning*, IPAS, Fotosintesis

**DEVELOPMENT OF LEARNING VIDEO BASED ON DISCOVERY  
LEARNING ON PHOTOSYNTHESIS MATERIAL, THE MOST  
IMPORTANT PROCESS ON EARTH IN THE SCIENCE SUBJECT OF  
GRADE IV STUDENTS AT SD NO. 4  
BENOA IN THE 2024/2025 ACADEMIC YEAR**

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**ABSTRACT**

*This study aims to describe the design of Discovery Learning-based Learning Video products, determine the quality of Learning Videos according to expert assessments, individual tests, and small group tests, determine the effectiveness of Discovery Learning-based Learning video media. The type of research conducted is development research using the ADDIE model (Analyze, Design, Development, Implementation, Evaluation). The data collection method uses a questionnaire and test method. The data analysis technique used is quantitative descriptive analysis and inferential statistics. The results of the study showed that the design of Discovery Learning-based learning videos in the form of learning videos in the form of YouTube/Drive links using the Canva and Inshot applications. The assessment from the design expert obtained a score of 92.5%, the content/material expert obtained a score of 97.5%, the instructional design expert obtained a score of 93.18%, the learning media expert obtained a score of 92.5%, the individual test on 3 students obtained a score of 94.16% and the small group test on 9 students obtained a score of 93.88% with very good qualifications. the t-count result is 12.967. The t-count is then compared with the t-table at a significance level of 5% with a degree of freedom of the numerator  $n-1$ . It is known that  $dk = (n-1) = (26-1) = 25$ . The T-table value for  $dk$  25 with a significance level of 5% is 2.060. Thus, the results show that  $T_{count} > T_{table}$  therefore,  $T_{count} 12.967 > T_{table} 2.060$ . then,  $H_0$  is rejected and  $H_1$  is accepted, which states that the average posttest results of students are more than the BSKAP value. Thus, it can be concluded that learning videos based on Discovery Learning are effective to be applied to photosynthesis material, the most important process on earth in the science subject of grade IV students at SD No. 4 Benoa in the 2024/2025 academic year.*

*Keywords: ADDIE, Learning Videos, Discovery Learning, Science, Photosynthesis*