

**LEMBAR PERSETUJUAN PEMBIMBING**

**SKRIPSI**

**Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) Melalui  
*Blended Learning* Berbantuan Video Terhadap Hasil Belajar Siswa  
Pada Konsep Elastisitas Dan Hukum Hooke Di SMA**

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LEMBAR PENGESAHAN

SKRIPSI

PENGARUH MODEL *PROBLEM BASED LEARNING* MELALUI  
*BLENDED LEARNING* BERBANTUAN VIDEO TERHADAP HASIL  
BELAJAR SISWA PADA KONSEP ELASTISITAS DAN HUKUM HOOKE  
DI SMA.

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## ABSTRAK

Sri Astri Suo. 2021. "Pengaruh Model *Problem Based Learning* Melalui *Blended Learning* Berbantuan Video Terhadap Hasil belajar Siswa Pada Konsep Elastisitas Dan Hukum Hooke Di SMA". Program Studi Pendidikan Fisika, Jurusan Fisika, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Negeri Gorontalo. Pembimbing I Dr. Abdul Haris Odja, S.Pd, M.Pd. dan Pembimbing II Dr. Nova Elysia Ntobuo, S.Pd, M.Pd.

Penelitian ini bertujuan untuk mengetahui bagaimana pengaruh penggunaan model *problem based learning* melalui *blended learning* berbantuan video terhadap hasil belajar siswa pada konsep elastisitas dan hukum hooke. Penelitian ini dilaksanakan pada semester ganjil tahun ajaran 2021/2022. Metode penelitian yang digunakan yaitu eksperimen menggunakan satu kelas eksperimen dan dua kelas replikasi. Tempat pelaksanaan penelitian di SMA Negeri 4 Gorontalo kelas XI IPA dengan subjek penelitian XI IPA 2 dengan jumlah siswa 26, kelas XI IPA 3 dengan jumlah 28 siswa, kelas XI IPA 4 dengan jumlah 27 siswa. Pengumpulan data hasil belajar dilakukan berdasarkan hasil test. Analisis data penelitian menggunakan uji normalitas, uji hipotesis dan uji *n-gain*. Berdasarkan pengujian hipotesis pada kelas eksperimen diperoleh  $t_{hitung}$  9.73 dan  $t_{tabel}$  2.77, kelas replikasi 1 diperoleh 9.53 dan  $t_{tabel}$  2.76, kelas replikasi 2 diperoleh 5.53 dan  $t_{tabel}$  2.77, maka hipotesis dari ketiga kelas  $H_0$ terima karena  $t_{hitung} \geq t_{tabel}$ . Hal ini terdapat pengaruh pada model *problem based learning* melalui *blended learning* berbantuan video terhadap hasil belajar siswa pada konsep elastisitas dan hukum hooke dengan *n-gain* kriteria tinggi.

**Kata kunci:** Model *Problem Based Learning*, *Blended Learning*, Video Pembelajaran, Terhadap hasil Belajar

## ABSTRACT

**Sri Astri Suo.** 2021. "The Impact of Problem Based Learning Model through Blended Learning Assisted with Video on the Students' Learning Outcomes in Elasticity Concept and Hooke's Law in SMA". Study Program of Physics Education, Department of Physics, Faculty of Mathematics and Natural Science, State University of Gorontalo. The principal supervisor is Dr. Abdul Haris Odja, S.Pd., M.Pd. and the co-supervisor is Dr. Nova Elysia Ntobuo, S.Pd., M.Pd.

The research aims at finding out the impact of problem based learning model through blended learning assisted with video on the students' learning outcomes in Elasticity Concept and Hooke's Law, and it was conducted in the odd semester in academic year of 2021/2022. Method applied in this current research is experimental, using one experimental group and two replication groups. The research is conducted at SMA Negeri 4 Gorontalo in class XI IPA where its subjects are 26 students in class XI IPA 2, 28 students in class XI IPA 3, and 27 students in class XI IPA 4. The collection of learning outcomes data is done based on the result of the test, whereas the data analysis employs normality test, hypothesis test, and n-gain test. In accordance with the hypothesis testing in experimental group, it obtains  $t_{\text{count}}$  for 9.73 and  $t_{\text{table}}$  for 2.77 while replication group I obtains  $t_{\text{count}}$  for 9.53 and  $t_{\text{table}}$  for 2.76, and replication group 2 obtains  $t_{\text{count}}$  for 5.53 and  $t_{\text{table}}$  for 2.77. Therefore, the hypothesis for the three groups of  $H_0$  is accepted due to the  $t_{\text{count}} \geq t_{\text{table}}$ . The results confirm that there is an impact of problem based learning model through blended learning assisted with video on the students' learning outcomes in Elasticity Concept and Hooke's Law with high criteria of n-gain.

**Keywords.** Problem Based Learning Model, Blended Learning, Learning Video, Learning Outcomes

