

**PENERAPAN BAHAN AJAR SAINS BERBASIS KEARIFAN BUDAYA  
LOKAL UNTUK MENINGKATKAN AKTIVITAS DAN PRESTASI BELAJAR  
FISIKA SISWA KELAS X MIPA 7 SMA NEGERI 2 SINGARAJA TAHUN  
PELAJARAN 2018/2019**

Oleh  
**Putu Rima Elda Rosadi, NIM 1313021031**  
**Jurusan Fisika dan Pengajaran IPA**

**ABSTRAK**

Rendahnya aktivitas dan prestasi belajar siswa dipengaruhi oleh beberapa faktor, diantaranya strategi pembelajaran atau metode pembelajaran yang diterapkan guru di kelas. Melalui penerapan bahan ajar sains berbasis kearifan lokal dalam pembelajaran fisika, penelitian tindakan kelas ini bertujuan untuk: (1) meningkatkan aktivitas belajar, (2) meningkatkan prestasi belajar, dan (3) mendeskripsikan respon siswa terhadap penerapan bahan ajar sains berbasis kearifan lokal dalam pembelajaran fisika. Subjek penelitian ini adalah siswa kelas X MIPA 7 SMA Negeri 2 Singaraja yang berjumlah 32 orang. Objek penelitian ini adalah aktivitas belajar, prestasi belajar, bahan ajar sains berbasis kearifan lokal, dan respon siswa terhadap penerapan bahan ajar sains berbasis kearifan lokal. Data aktivitas belajar siswa diperoleh melalui observasi pada setiap pertemuan, dengan menggunakan pedoman observasi. Data prestasi belajar fisika diperoleh melalui tes prestasi tiap akhir siklus, data respon siswa diperoleh melalui angket respon siswa pada akhir siklus kedua. Data yang diperoleh dianalisis secara deskriptif. Penelitian ini dikatakan berhasil jika aktivitas belajar siswa minimal berkategori aktif, prestasi belajar siswa minimal berkategori tinggi, respon siswa minimal berkategori positif. Hasil penelitian menunjukkan bahwa terjadi peningkatan aktivitas belajar, hal ini ditunjukkan dari skor rata-rata aktivitas belajar pada siklus I = 14,55; Standar Deviasi = 2,25; dengan kategori cukup aktif, dan rata-rata aktivitas belajar pada siklus II = 15,99; Standar Deviasi = 1,98 dengan kategori aktif. Hasil prestasi belajar pada kedua siklus berkategori baik. Pencapaian prestasi belajar siswa pada siklus I, nilai rata-rata = 73,6; Standar Deviasi = 11,9 dengan KK = 75%. Siklus II, nilai rata-rata = 83,9; Standar Deviasi = 5,8 dengan KK = 90,6%. Respon siswa terhadap penerapan bahan ajar sains berbasis kearifan lokal dalam pembelajaran fisika berkategori sangat positif dengan skor rata-rata = 83,75. Hasil tersebut semuanya telah melampaui batas kriteria ketuntasan minimal.

**Kata kunci:** aktivitas belajar, prestasi belajar, bahan ajar sains berbasis kearifan lokal

**APPLICATION OF SCIENCE MATERIALS BASED ON LOCAL CULTURE WISDOM TO IMPROVE ACTIVITY AND ACHIEVEMENT OF LEARNING PHYSICS STUDENTS GRADE X MIPA 7 SMA NEGERI 2 SINGARAJA YEAR LESSON 2018/2019**

**By**

**Putu Rima Elda Rosadi, NIM 1313021031**  
**Department of SCIENCE Physics and teaching**

**Abstract**

*The lack of activities and student learning achievements are influenced by several factors, including learning strategies or learning methods that teachers in the classroom applied. Through the application of local wisdom-based science materials in physics learning, this research aimed at: (1) Improving learning activities, (2) Improving learning performance, and (3) describing student responses to application of local wisdom-based science materials in the learning of physics. The subject of this study is a X MIPA 7 class student of SMA Negeri 2 Singaraja which amounted to 32 people. The research object is a learning activity, learning achievement, local wisdom-based science teaching materials, and student response to the application of local wisdom-based science materials. Student learning activity data is obtained through observation at each meeting, using observation guidelines. Learning performance physics data is obtained through the performance test of each end of the cycle, student response data is obtained through the student response at the end of the second cycle. The Data obtained is analyzed descriptively. This research is successful if the students learning activities are at least active category, students learning achievement is at least high category, students responses are minimally positive. The results showed that there was an increase in learning activity, it was demonstrated from the average score of study activity on cycle I = 14.55; Standard deviation = 2.25; With a fairly active category, and the average learning activity on cycle II = 15.99; Standard deviation = 1.98 with active category. The results of learning achievement on both cycles are well categorized. Achievement of students learning achievement in cycle I, average value = 73.6; Standard deviation = 11.9 with KK = 75%. Cycle II, average value = 83.9; Standard deviation = 5.8 with KK = 90.6%. Students response to the adoption of local wisdom-based science teaching in highly positive categories of physics with an average score of  $\bar{f} = 83.75$ . These results have all exceeded the limits of the minimum submission criteria.*

**Keywords:** *learning activities, learning achievement, local wisdom-based science teaching materials.*