

# **PENGEMBANGAN LEMBAR KERJA SISWA UNTUK MEMINIMALISIR MISKONSEPSI FISIKA SISWA SMA**

Rahmat Hidayatulloh  
NIM. 1002537

Pembimbing I : Drs. Iyon Suyana, M. Si.

Pembimbing II : Dra. Hera Novia, M.T.

Jurusan Pendidikan Fisika, FPMIPA-UPI

## **ABSTRAK**

Penelitian ini bertujuan mengembangkan lembar kerja siswa (LKS) untuk meminimalisir miskonsepsi fisika siswa SMA pada materi hukum I Termodinamika dengan mengetahui kualitas LKS yang dikembangkan. Kualitas LKS dinilai melalui uji keterbacaan para siswa, penilaian guru, dan uji miskonsepsi, serta mengetahui jumlah persentase miskonsepsi siswa pada kelas eksperimen dan kelas kontrol. Penelitian ini dilakukan terhadap siswa kelas XI IPA 6 sebagai kelas eksperimen, dan kelas XI IPA 3 sebagai kelas kontrol di salah satu SMA Negeri di Kota Bandung dengan metode penelitian dan pengembangan (Research and Development). Langkah-langkah penelitian yang dilakukan meliputi tiga tahapan, yaitu pendahuluan (studi kepustakaan dan survei lapangan), pengembangan (penyusunan produk, dan validasi produk) dan uji produk (uji coba terbatas dan revisi hasil uji coba terbatas). Instrumen penelitian yang digunakan berupa format penilaian guru, angket respon siswa, dan soal tes. Penilaian guru terhadap LKS yang dikembangkan sangat kuat dengan persentase penilaian sebesar 97,76%. Respon siswa terhadap LKS yang dikembangkan tergolong kategori sangat kuat dengan persentase sebesar 81,99%. Adapun persentase miskonsepsi kelas eksperimen dan kelas kontrol memiliki kategori sedang. Berdasarkan hasil uji t satu pihak (pihak kanan) menunjukkan bahwa pembelajaran menggunakan LKS yang dikembangkan lebih baik dibandingkan dengan pembelajaran tanpa menggunakan LKS yang dikembangkan dalam meminimalisir miskonsepsi fisika pada materi hukum I Termodinamika. Dengan demikian, dapat disimpulkan bahwa LKS yang dikembangkan memiliki kualitas yang sangat baik, dan berhasil dalam meminimalisir miskonsepsi siswa pada materi hukum I termodinamika.

Kata Kunci : Pengembangan LKS, kualitas LKS

## ***ABSTRACT***

This research is aimed to develop the student's worksheet to minimize the misconception of physics for Senior High School students on the material of the First Law of Thermodynamic by recognizing the quality of the student's worksheet. The quality of students's worksheet has been developed based on the students' legibility test, the teacher's assessment, and the misconception test, and also to know the comparison of the percentage of the students' misconception on the experiment class and the control class. This research was done to the students of XI IPA 6 as the experiment class, and the students of XI IPA 3 as the control class in one of the public senior high schools in Bandung with a Research and Development. The procedure of the research has three steps, they are an introduction (a library study and a survey), a development (a product arrangement, and a product validation) and a product testing (limited testing and revising the result of the limited testing). The research instruments used are the teacher assessment form, the questioner of the students' respond, and the testing questions. The teacher's assessment to the developed student's worksheet is very strong, with the assessment percentage of 97,76%. The students' respond to the developed student's worksheet includes a very strong category with the percentage of 81,99%. Furthermore, the percentage of the experiment class and the control class' misconception is medium. Based on the  $t$  test of one side (right side) shows that the study using the developed student's worksheet is much better than the study without using the developed student's worksheet in minimizing the misconception of physics on the material of the First Law of Thermodynamic. Thus, it can be assumed that the developed student's worksheet has a best quality, and succeed in minimizing the students' misconception on the material of the First Law of Thermodynamic.

Key words : student's worksheet development, quality of the student's worksheet