

ABSTRAK

Yunisa Nurfitriantiwi. 2016. Peningkatan Hasil Belajar Siswa Melalui Penerapan Multimedia Berbasis *Project Based Learning* pada Konsep Sel di SMA Negeri 1 Cililin. Dibawah bimbingan Prof. Dr. H. Toto Sutarto Gani Utari, M.Pd., dan Drs. Yusuf Ibrahim, M.Pd., M.P.

Belajar hakikatnya merupakan suatu proses yang ditandai dengan adanya perubahan pada diri seseorang. Perubahan sebagai hasil proses belajar dapat diindikasikan dalam berbagai bentuk. Penelitian ini bertujuan untuk mengetahui peningkatan hasil belajar siswa melalui penerapan multimedia berbasis *project based learning* pada konsep sel di SMA Negeri 1 Cililin. Metode penelitian yang digunakan adalah *Pre-experimental design* dengan desain penelitian *One-Group Pretest-Posttest Design*, yaitu peneliti ingin mengukur peningkatan hasil belajar siswa setelah penerapan multimedia berbasis *project based learning* yang diukur melalui tes berupa soal pilihan ganda dan non tes berupa penilaian afektif dan psikomotor. Adapun sampel pada penelitian ini yaitu 33 siswa di kelas XI MIPA 4 SMA Negeri 1 Cililin yang diberikan 30 soal objektif pilihan ganda sebagai tes awal (*pretest*) dan tes akhir (*posttest*) untuk mengukur kemampuan hasil belajar siswa, sebelum dan sesudah diberikan perlakuan berupa penerapan multimedia berbasis *project based learning*. Hasil penelitian diperoleh data *pretest* dan *posttest* dengan nilai rata-rata *pretest* sebesar 38.16 dan nilai rata-rata *posttest* sebesar 81.27. Kemudian peneliti melakukan uji hipotesis dengan menggunakan uji t, dan didapatkan hasil dimana $t_{hitung} (23.82) > t_{tabel} (2.74)$ ($\alpha = 0.01$). Dari hasil uji hipotesis inilah didapatkan hasil bahwa terdapat perbedaan yang signifikan antara hasil *pretest* dan hasil *posttest*, dimana terjadi peningkatan hasil belajar siswa terhadap pembelajaran dengan penerapan multimedia berbasis *project based learning*. Selain hasil *pretest* dan *posttest* yang menunjukkan peningkatan hasil belajar dalam ranah kognitif, hasil penilaian sikap dan keterampilan juga menunjukkan hasil yang baik dimana penilaian sikap siswa diperoleh nilai rata-rata 82,77 dengan kategori sangat baik, dan hasil penilaian keterampilan siswa diperoleh nilai rata-rata 92,22 dengan kategori baik.

Kata kunci : Hasil belajar siswa, Multimedia, *Project Based Learning*.

ABSTRACT

Yunisa Nurfitriantiwi. 2016. Improving Student Learning Outcomes through the implementation of Multimedia-Based Project Based Learning on the Concept of Cell in SMA Negeri 1 Cililin. Under the Guided of Prof. Dr. H. Toto Sutarto Gani Utari, M.Pd., and Drs. Yusuf Ibrahim, M.Pd., M.P.

Learning is a which is essentially characterized by a change in a person. Changes as a result of the learning process can be indicated in various forms. This study aims to determine improving student learning outcomes through the implementation of multimedia-based project based learning on the concept of cells in SMA Negeri 1 Cililin. The method used is pre-experimental design to study design one-group pretest-posttest design, the researches wan to measure improvement in student learning outcomes after the implementation of multimedia-based project based learning as measured through tests in the form of multiple choice questions and non-tests form affective and psychomotor ratings. The sample in this study is 33 students in class XI MIPA 4 SMA Negeri 1 Cililin given 30 about an objective test of multiple choice tests initial (pretest) and final test (posttest) to measure the learning outcomes of students' abilities, before and after treatment of the application multimedia-based project based learning. Research data obtained pretest and posttest, with value – average pretest is 38,16 and posttest is 81,27. Then the researchers to test the hypothesis by using t-test and the result obtained where $t_{hitung} (23,82) > t_{tabel} (2,75)$ ($\alpha = 0.01$). this hypothesis of the tests result was showed that there are significant differences between pretest and posttest result, where an increase in sudent learning outcomes towards learning with application multimedia-based project based learning. In addition to pretest and posttest result which showed improvement in cognitive learning outcomes, attitudes and skills assessment result also showed good results, the attitude assessements where students obtained an average value of 82,77 with very good categories, and the results of the skills assessements of students obtained an average value of 92,22 with good categories.

Keywords: Student Learning Outcomes, Multimedia, Project Based Learning