ABSTRAK

RIZKI AMELIA ANJANI: Pengembangan Lembar Kerja Praktikum Materi Sistem Koordinasi Berbasis HOT-Lab

Media atau bahan ajar yang umumnya digunakan di Indonesia yaitu media atau bahan ajar yang bersifat *cookbook*. media atau bahan ajar *cookbook* tentu belum bisa membekalkan keterampilan berpikir kritis dan kreatif pada siswa, karena siswa tidak difasilitasi untuk berpikir menentukan langkah-langkah kegiatan praktikum melainkan mereka harus patuh mengikuti langkah demi langkah yang telah disajikan. Maka, dikembangkanlah bahan ajar HOT-Lab yang berfokus pada keterampilan berpikir tingkat tinggi. Penelitian ini bertujuan untuk mendeskripsikan tahapan/proses perancangan lembar kerja praktikum materi sistem koordinasi berbasis HOT-Lab, menganalisis validitas lembar kerja praktikum materi sistem koordinasi berbasis HOT-Lab, mendeskripsikan respon siswa terhadap lembar kerja praktikum materi sistem koordinasi berbasis HOT-Lab. Metode yang digunakan yaitu metode *Research dan Development* dengan model 4D, namun penelitian ini hanya dibatasi hingga 3D. Populasi dalam penelitian ini adalah siswa kelas XI MAN 1 Subang dan sampel yang dipilih berdasarkan teknik *purposive sampling* yaitu kelas XI MIPA 2. Hasil penelitian menunjukkan bahwa tahapan perancangan lembar kerja meliputi *define*, *design* dan *development*. Hasil validasi ahli media memperoleh skor 78% dengan interpretasi valid, hasil validasi ahli materi memperoleh skor 82% dengan interpretasi sangat valid dan hasil validasi guru biologi sebagai pengguna memperoleh skor 85% dengan interpretasi valid. Respon siswa terhadap lembar kerja praktikum materi sistem koordinasi berbasis HOT-Lab menunjukan skor 82% dengan interpretasi sangat baik.

Kata Kunci: HOT-Lab, LKPD, Sistem Koordinasi

ABSTRACK

RIZKI AMELIA ANJANI: *Development of Practical Worksheets Coordination System Materials Based on HOT-Lab*

Media or teaching materials that are generally used in Indonesia are cookbooks. Cookbook media or teaching materials certainly cannot provide students with critical and creative thinking skills, because students are not facilitated to think about determining the steps for practicum activities but they must obey the steps that have been presented. Thus, HOT-Lab teaching materials were developed that focus on higher order thinking skills. This study aims to describe the stages/process of designing the HOT-Lab-based coordination system practicum worksheet, analyzing the validity of the HOT-Lab-based coordination system practicum worksheet, describing student responses to the HOT-Lab-based coordination system practicum worksheet. The method used is the Research and Development method with a 4D model, but this research is only limited to 3D. The population in this study were students of class XI MAN 1 Subang and the sample was selected based on purposive sampling technique, namely class XI MIPA 2. The results showed that the stages of designing the worksheet included define, design and development. The results of the media expert's validation obtained a score of 78% with a valid interpretation, the results of the material expert's validation obtained a score of 82% with a very valid interpretation and the validation results of the biology teacher as a user obtained a score of 85% with a valid interpretation. Student responses to the HOT-Lab-based coordination system practicum worksheet showed a score of 82% with a very good interpretation.

Keywords: *Coordination System, HOT-Lab, Laboratory Activities, Practical Worksheets*