

Hanif Dwi Fakhruddin. 2025. Pengembangan Modul Ajar Kurikulum Merdeka Berbasis *Project Based Learning* (Pjbl) Pada Materi Jaringan Komputer Kelas XI SMKN 1 Kamal. Skripsi. Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing : Puji Rahayu Ningsih.

ABSTRAK

Penelitian ini dilakukan untuk mengembangkan Modul Ajar Kurikulum Merdeka Berbasis *Project Based Learning* (Pjbl) Pada Materi Jaringan Komputer Kelas XI Smkn 1 Kamal. Penelitian ini menggunakan metode penelitian pengembangan (*Research and Development*) dengan model pengembangan ADDIE yang terdiri dari lima tahap antara lain : *Analysis, Design, Development, Implementation, Evaluation*. Hasil penelitian menunjukkan bahwa modul ajar yang dikembangkan dengan model PjBL dikategorikan sangat layak, dengan rata rata validasi ahli konstruksi sebesar 90% dan ahli materi sebesar 83% uji soal sebesar 91%, dan ahli keterlaksanaan pembelajaran sebesar 94%. Hasil rata-rata gabungan validasi ahli diperoleh persentase sebesar 89,5% dengan kategori sangat layak. Pada uji keefektifan modul ajar pada ranah kognitif. Dengan hasil lembar respon siswa diperoleh rata-rata 89%, dan hasil belajar siswa mengalami peningkatan dengan rata-rata nilai gain sebesar 0.66 termasuk kategori sedang Sehingga hasil uji kevalidan, kepraktisan dan keefektifitas modul ajar, didapatkan suatu kesimpulan bahwa Pengembangan Modul Ajar Kurikulum Merdeka Berbasis *Project Based Learning* (Pjbl) Pada Materi Jaringan Komputer Kelas XI Smkn 1 Kamal dinyatakan layak untuk digunakan.

Kata Kunci : Jaringan Komputer, Kurikulum Merdeka, Modul Ajar, Model PjBL

Hanif Dwi Fakhruddin. 2025. *Development of Independent Curriculum Teaching Module Based on Project Based Learning (Pjbl) on Computer Network Material for Class XI of SMKN 1 Kamal*. Thesis. Informatics Education Study Program, Faculty of Education, Trunojoyo University, Madura. Advisor: Puji Rahayu Ningsih.

ABSTRACT

This research was conducted to develop a Project Based Learning (PjBL) Independent Curriculum Teaching Module on Computer Network Material for Class XI of SMKN 1 Kamal. This research uses a development research method (Research and Development) with the ADDIE development model consisting of five stages, namely: Analysis, Design, Development, Implementation, Evaluation. The results of the study indicate that the teaching module developed with the PjBL model is categorized as very feasible, with an average validation of construction experts of 90% and material experts of 83%, test questions of 91%, and learning implementation experts of 94%. The average result of the combined expert validation obtained a percentage of 89.5% with a very feasible category. In the effectiveness test of the teaching module in the cognitive domain. With the results of the student response sheet, an average of 89% was obtained, and student learning outcomes increased with an average gain value of 0.66, including the moderate category. So that the results of the validity, practicality and effectiveness tests of the teaching module, a conclusion was obtained that the Development of the Independent Curriculum Teaching Module Based on Project Based Learning (Pjbl) on Computer Network Material for Class XI of SMKN 1 Kamal was declared suitable for use.

Keywords: *Computer Network, Independent Curriculum, Teaching Module, PjBL Model*