

ABSTRAK

Analisis Kesulitan Belajar Siswa Pada Mata Pelajaran Komputer Dan Jaringan Dasar Ditinjau Dari Proses Berpikir Siswa Kelas X Smk Al-Hikam

Kesulitan belajar dan proses berpikir merupakan faktor yang penting dalam meningkatkan proses belajar siswa dalam memahami materi pelajaran *subnetting*. Penelitian ini bertujuan untuk menganalisis tingkat kesulitan belajar dan cara berpikir siswa pada materi *subnetting*. Metode yang digunakan pada penelitian ini yaitu pendekatan penelitian kualitatif dengan jenis penelitian deskriptif. Hasil penelitian yang diperoleh dari 23 responden terdapat 15 siswa berpikir secara asosiatif dan sisanya yaitu 8 siswa secara terarah, pada setiap kategori akan dipilih 3 nilai tertinggi dan rekomendasi dari guru sebagai sampel. Sehingga disimpulkan bahwa siswa dengan kategori asosiatif tidak mengalami kesulitan dalam memahami soal. Namun, Siswa mengalami kesulitan dalam menjawab soal dibagian menentukan alamat *network* dan alamat *broadcast* sebuah jaringan, sedangkan Siswa dengan kategori terarah mengalami kesulitan dalam menerapkan soal yang membutuhkan penjelasan seperti soal menentukan kelompok subnet sebuah IP dalam jaringan namun terlihat mudah bila menyebutkan rumus yang sudah di pelajari

Kata kunci : kesulitan belajar, proses berpikir , *subnetting*.

ABSTRACT

Analysis of Students' Learning Difficulties in Computer and Basic Networking Subjects Viewed from Critical Thinking for Class X Students of Al-Hikam Vocational School

Learning difficulties and critical thinking are important factors in improving student learning processes in understanding subnetting subject matter. This study aims to analyze the level of learning difficulties and students' critical thinking on subnetting material. The method used in this research is a qualitative research approach with descriptive research type. The results obtained from 23 respondents there are 15 students think critically associatively and the rest are 8 students in a focused manner, in each category the 3 highest scores and recommendations from the teacher will be selected as samples. So it was concluded that students with the associative category had no difficulty in understanding the questions. However, students have difficulty in answering questions in the section on determining the network address and broadcast address of a network, while students with directed categories have difficulty in applying questions that require explanation such as the question of determining the subnet group of an IP in a network but it looks easy when mentioning the formula that has been studied.

Keywords: *learning difficulties, critical thinking, subnetting.*