

ABSTRAK

Sofian Ignatius. **Analisis Kebutuhan Sarana Dan Prasarana Di Laboratorium dan Bengkel Program Studi Pendidikan Teknik Bangunan Fakultas Teknik Universitas Negeri Jakarta**. Skripsi. Jakarta, Program Studi Pendidikan Teknik Bangunan Fakultas Teknik Universitas Negeri Jakarta, 2019.

Penelitian ini bertujuan untuk mengetahui kebutuhan peralatan dan kapasitas ruangan efektif yang digunakan untuk menampung kegiatan pembelajaran praktek di laboratorium Program Studi Pendidikan Teknik Bangunan Universitas Negeri Jakarta. Laboratorium yang ada di program studi pendidikan teknik bangunan kurang memadai untuk pembelajaran praktek. Dimana dari 22 responden, 57.1% mahasiswa merasa jumlah peralatan yang tersedia di laboratorium tidak sesuai dengan yang dibutuhkan. Serta 69% mahasiswa merasa tidak nyaman melakukan kegiatan praktek di laboratorium.

Metode yang dipakai dalam penelitian ini adalah metode deskriptif dengan pendekatan kuantitatif. Teknik pengumpulan data dilakukan dengan menggunakan instrumen observasi dan wawancara kepada pihak-pihak yang terkait. Penelitian ini dilakukan di tiga laboratorium/bengkel yakni laboratorium uji bahan, bengkel plumbing dan bengkel kayu. Standar yang digunakan berupa inventarisai peralatan di Politeknik Negeri Jakarta untuk standar peralatan serta Permendiknas No.40 Tahun 2008 dan Data Arsitek Neufert jilid I untuk standar ruangan.

Hasil penelitian menunjukkan bahwa ketersediaan peralatan yang ada di laboratorium uji bahan sebesar 55,56% dengan kapasitas ruangan sebesar 26,66%. Ketersediaan alat di bengkel kayu sebesar 59,21% dengan kapasitas ruangan sebesar 92,42%. Dan ketersediaan alat di bengkel plumbing sebesar 69,10% dengan kapasitas ruangan sebesar 33,00%. Dari hasil penelitian ini dapat disimpulkan bahwa perlu adanya pengembangan terhadap ketersediaan peralatan serta kapasitas ruangan di Program Studi Pendidikan Teknik Bangunan.

Kata Kunci : Kebutuhan, ketersediaan, kapasitas, peralatan, ruangan, laboratorium, bengkel, Pendidikan Teknik Bangunan

ABSTRACT

Sofian Ignatius. *Analysis of Needs in facilities and infrastructure at Laboratory and workshop of Building Engineering Education Study Program Faculty of Engineering State University of Jakarta*. Bachelor Thesis. Jakarta. Building Engineering Education Study Program Faculty of Engineering State University of Jakarta, 2019

The purpose of this research is to find out the equipment requirements and effective room capacity which is used to accommodate practical learning activities in the laboratory in Building Engineering Education Study Program Faculty of Engineering State State University of Jakarta. Laboratories in building engineering education study programs are inadequate for practical learning. From 22 respondents, 57.1% of students felt that the amount of equipment available in the laboratory was not as needed. And 69% of students feel uncomfortable doing practical activities in the laboratory.

The method used in this study is a descriptive method with a quantitative approach. The technique of data collection is done by using observation instruments and interview instruments to the parties involved. This research was conducted in three laboratories / workshops namely material testing laboratories, plumbing workshops and wood workshops. The standard used in the form of equipment inventory at the Jakarta State Polytechnic for equipment standards as well as Regulation of the National Education Minister Number 40 of 2008 and Data Architect volume I from Neufert for room standards.

The results showed that the availability of equipment in the material testing laboratory was 55.56% with a room capacity of 26.66%. The availability of tools in the wood workshop is 59.21% with a room capacity of 92.42%. And the availability of tools in the plumbing workshop is 69.10% with a room capacity of 33.00%. From the results of this study it can be concluded that there is a need for development of equipment availability and room capacity in the Building Engineering Education Study Program.

Keywords: *Needs, availability, capacity, equipment, room, laboratory, workshop, Building Engineering Education*