ABSTRACT

Institut Teknologi Telkom lecturer office is one of the learning activities support elements. In addition to functioning as a lecturer to work, this space can also be a place to consult for current students in custody, and to consult the final assignment. Lecturer office become one of the assessment points on Accreditation Assessment Guidelines of S1 Study Program Level by BAN-PT. Only one faculty that achieve good level, that is Informatics Engineering Faculty with 3.2 point from 4 point of scale. Judging from the condition of existing infrastructure, lecturers conduct their activities using a computer-based work station or Visual Display Terminal (VDT).

From the results of preliminary studies that conducted by measuring the physical working conditions and VDT checklist evaluation, it can be concluded that the IT Telkom lecturers office less ergonomic. Evidenced by 51.61% of the population sample at room temperature more than 28^0C during the day, ≥ 96.77% of the sample population have lighting levels <500 lux, and 43.76% of the sample interviewed stated "no" or in other words indicating that lecturer office in IT Telkom needs an improvement.

Design method that used in this study is rational method design . Design process of rational method is clarifying objectives, establishing function, setting requirements, determining characteristics, generating alternatives, evaluating alternatives, and improving details.

VDT specifications designed are VDT framework made from steel, portable chair, a table designed to be used both for work and activities of computing and are stackable, medium seat cushion foam, rubber coating pads, table material made from teak wood.

Designed dimensions suit with anthropometry data from user population sample, ie with high pedestal seats which can be adjusted, with the interval from 38.5 to 46 cm, 41.5 cm wide base seat, adjustable seat base length, with a range from 40.5 to 51 cm, 23 cm high armrests, arm length 31 cm, 7 cm wide armrests, a distance of 40.5 cm between the armrests, seat height 51 cm, seat width 34 cm.

Keyword : Office, Visual Display Terminal (VDT), Ergonomic, Physical Working Conditions , Rational Method Design, Anthropometry.