ABSTRACT

Time to Degree is one of the assessment elements in the institutional accreditation process of a university. One of the elements of assessment on college graduates is that the college has an ideal education efficiency rate. The more students who graduate on time, the better the performance of the college, so that the student graduation rate on time becomes one of the criteria for accreditation assessment for a college or study program. Timely graduation is one of the important assessments related to university accreditation so that students are expected to complete their lectures on time. However, there are several things or factors that become obstacles for students to be able to complete their studies on time. graduate students have many responsibilities, such as work, school, and household responsibilities, which can make students feel overwhelmed and lead to withdrawal from the lecture program. Delays in graduating on time can be caused by several inhibiting factors contained within the student, so monitoring of thesis progress is needed to determine targeting and strategies that can help students in thesis work. One approach that can be used to determine the factors that can hinder timely graduation is to use the theory of planned behavior (TPB) approach, which proves that behavior control is directly and significantly related to a person's interest in doing certain things. Based on the theory of planned behavior (TPB), a smart monitoring system can be designed that can find out factors that can affect on-time graduation so that it can increase the on-time graduation of students of the Master of Industrial Engineering study program at the Faculty of Industrial Engineering. Product design is integrated with Kansei Engineering and Quality Function Deployment. Kansei Engineering aims to find out product criteria based on user habits in using existing products and Quality Function Deployment (QFD) aims to maximize the prototype design designed in accordance with user desires through the ranking results of product specifications to be carried out. After the product is successfully designed, testing is then carried out to determine the level of effectiveness and acceptability related to the designed design results. So that the design of a smart monitoring system is produced in the form of an application that aims to increase student enthusiasm by providing an integrated system between students and doses in the thesis process.

Keywords: – ***Smart Monitoring System, Time to Degree, Theory of Planned Behavior, Kansei Engineering, Quality Function Deployment.***