

# IMPLEMENTATION MODEL OF WORK BASED CURRICULUM IN INFORMATICS ENGINEERING EDUCATION

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## ABSTRAK

The needs of IT teachers are always increasing, demanding the availability of LPTK graduates Prodi PTI degnan role and function to print teachers. Conditions that occur at this time in PTT Prodi PTT is the declining interest of students to work as a teacher someday when graduated with some consideration. It is indicated from several things including: (1) the experience of the research team when asking directly to the students; (2) the passion of student learning in the educational course is not higher than the passion of learning in engineering subjects; And (3) testimony of SMK heads where the implementation of PPL that the last three years, the competence of teaching students in class decreased. In addition, despite the many engineering achievements that students have achieved, PTI graduates do not immediately get a technical competence certificate and a lack of experience in applying engineering competence when conducting Industrial Practice. Therefore, it can be concluded that Prodi PTI FT UNY is in a precarious state, which lacks sufficient experience in the world of work. This study aims to: (1) know the competencies kependidikan, keteknikkan competencies and competencies that must be mastered by the IT teacher; (2) describe a world-based learning strategy undertaken at the NYP; And (3) formulate the implementation model of curriculum based on the working world of Informatics Engineering Education. Data collection methods used in the research are observation, interview, FGD and questionnaire. Respondents involved SMK teachers, SMK heads, industrial practitioners, JPTEI managers, PTI students and PTI lecturers. The world of work in this case is SMK as a place to apply and hone the competence of education and Industry as a place to apply and hone competence. A strategy is needed in order to restore the role and function of LPTKs as teacher printers. One effort that can be done is to cooperate with the world of work. It is expected that with the study of the competence of education, technical competence and the competence of the workforce is found so that the form of PPL and PI guidance / implementation guidance, and learning tools in the world of work (SMK and Industry) integrated with learning on campus developed beside learning tools on campus. The implementation model of the world-based curriculum in Informatics Engineering Education is expected to produce graduates who excel in the field of education and engineering, as an effort to revitalize the role and function of LPTK as teacher printers. Teachers in this case are teachers who excel in the field of education as well as the field of engineering and employment, so have a more competent competence of graduates of polytechnics and engineering program who want to become a vocational teacher. The expected output of this study is the scopus-indexed journal on the International Journal of Electrical Engineering Education (Q3) in 2018 or the Accredited Journal of the Vocational Education Journal in 2018. It is also expected to obtain a book on the development and implementation of a work-based curriculum on technical education Completed in 2018.

Kata Kunci: *work based learning, informatics engineering education*