

MODULE HANDBOOK

Course:	Interfacing
Module Level:	Undergraduate
Code:	FIE309
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/Term:	7 th / Fourth Year
Module Coordinator(s):	Yhosep Gita Yhun Yhuwana, S.Si. M.T.
Lecturer(s);	Yhosep Gita Yhun Yhuwana, S.Si. M.T. and Winarno, S.Si. M.T.
Language:	Bahasa Indonesia
Classification Within The Curriculum:	Compulsory Course /Elective Course
Teaching format/ class hours per week during semester:	2 hours of lectures (50 min / hour)
Workload:	2 hours of lectures, 2 hours of structural activities, 2 hours individual study, 13 weeks per semester, and total of 78 hours a semester ~ 2.6 ECTS *
Credit points:	2
Requirement(s):	(FIE304) Microprocessor and Microcontroller
Learning Goals/Competencies:	<p>General Competence (Knowledge): After following this course, students can use computers in measurement systems.</p> <p>Spesific Competence:</p> <ol style="list-style-type: none"> 1. Master in microcomputer and computer systems 2. Ability to design and develop instrumentation system based on interfacing
Contents:	This course discusses : introduction to microcomputer, microcomputer systems, Delphi programming, Serial and Parallel port interfacing, ADC and DAC acquisition systems, development of the current interface devices.
Soft Skill Attribute:	Effort and ethic
Study/Exam Achievements:	<p>Final score is calculated as follow: 20% assignment + 10% soft skill + 35% midterm test + 35% final exam</p> <p>Final grade is defined as follow:</p> <p>A : 75 – 100 AB : 70 – 74.99 B : 65 – 69.99 BC : 60 – 64.99 C : 55 – 59.99 D : 40 – 54.99 E : 0 – 39.99</p>
Forms of Media:	Computer, Powerpoint slides, LCD projectors and whiteboards
Learning Methods:	Lecture, discussion and assignment
Literature(s):	<ol style="list-style-type: none"> 1. Hill F.J., and Petersson, G.R., 1978, <i>Hardware Organization and System Design</i>, 2rd edition, John-wiley, New York 2. Hill F.J., and Petersson, G.R., 1978, <i>Digital system Hardware Organization and System Design</i>, 2rd edition, John-wiley, New York
Notes:	*Total ECTS={total hours workloadx50 min}/60 min}/25 hours Each ECTS is equals with 25 hours

