MODULE HANDBOOK

Course:	**Digital Electronics**
Module Level:	Undergraduate
Code:	FIE204
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/Term:	4th / Second Year
Module Coordinator(s):	Yoseph G., S.Si. M.T,
Lecturer(s):	Yoseph G., S.Si. M.T., Drs.Tri Anggono Prijo; Dr.Riries Rulaningtyas, S.T. M.T. and Drs. Bambang Suprijanto, M.Si.
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 of individual study, 13 weeks per semester, and total of 78 hours per semester ~ 2.6 ECTS*
Credit Points:	2
Requirement(s):	(FID 104) Basic Physics II
Learning Goals/Competencies:	**General Competence (Knowledge):** After following this course, students are able to explain the principles of digital electronics and digital circuit which is the application of digital electronics. **Specific Competence:** 1. Students are able to relate theory and application about digital electronics, basic logic gates, advanced logic gates, simplification of logic circuits. 2. Students are able to know code conversion, flip-flop, counter, shift registers, using of digital integrated circuits, and the conversion of digital, analog, sensor digital systems.
Contents:	This course dissusses topics about basic knowledge of digital electronics, basic logic gates, advanced logic gates, simplification of logic circuits, code conversion, flip-flop, counter, shift registers, using of digital integrated circuits, and the conversion of digital, analog, sensor digital systems.
Soft Skill Attribute:	Discipline and honesty
Study/Exam Achievements:	Students are considered competent and eligible to pass the course upon obtaining at least 55. Final Exam Practice 40%; soft skill 10%, and daily practical value 50%. Finalgrade is defined as follow: 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

Learning Methods:	Lecture, discussion, tutorial
Form of Media:	Powerpoint slides, LCD projectors and whiteboards
Literature(s):	1. Tokheim, R.L.1990, *Digital Electronics*: second edition, McGraw-Hill, Inc, New York. 2. Tokheim, R.L.1990, *Principles of Digital Electronics*, McGraw-Hill, Inc, New York.
Notes:	*Total ECTS={(total hours workloadx50 min)/60 min}/25 hours Each ECTS is equals with 25 hours