Module Handbook

Module Name:	Instrumentation System
Module Level:	Bachelor
Abbreviation, if applicable:	FI 2271
Sub-heading, if applicable:	
Courses included in the module, if applicable:	
Semester/term:	second year
Module coordinator(s):	·
Lecturer(s):	
Language:	Bahasa Indonesia
Classification within the curriculum:	General Studies / Major Subject / Elective Studies
Teaching format / class hours per week during the semester:	3 hours lectures
Workload:	3hours lectures, 3 hours tutorial and structured activities, 3 hours individual study, per week, 16 weeks per semester, and total 144 hours a semester
Credit Points:	3
Requirements:	- Electronics
Learning goals/competencies:	 Knowledge Demonstrate knowledge of basic principle of Instrumentation Systemsics, fluid, elasticity and oscilation, and thermodynamics. Skills To demonstrate an ability to plan and prepare practical laboratory investigations To demonstrate an ability to conduct experiments and record data using a variety of suitable To demonstrate an ability to conduct experiment in a responsible and compliance way to the relevant health and safety regulations Competence Ability to design and develop a instrumentation system for physical system.
Content:	Power Supply; Data Communication; Input Device, Signal Processing and Ouput Device wich will be deepened in the task of research based learning
Study/exam achievements:	Students are considered to be competent and pass if at least get 50% of maximum mark of the exams, homework, laboratory work, and research based learning.
Forms of Media:	Slides and LCD projectors, blackboards, lab.
Literature:	 Sutrisno, Seri Elektronika Lanjut J. Fraden (2003) Handbook of Modern Sensor Waldemar Nawrocki (2005) Measurements Systems and Sensor Howard V. Malmstadt (1974) Optimization of Electronic Measurements
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