UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF PHYSICS EDUCATION
PHYSICS STUDY PROGRAM
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Bachelor of Physics   **MODULE HANDBOOK**

Module name:	Analog Electronics
Module level, if applicable:	Undergraduate Program
Code:	FSK6411
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	2nd
Module coordinator:	Pinaka Elda Swastika, M.Sc.
Lecturer(s):	Sumarna, M.Si., Pinaka Elda Swastika, M.Sc.
Language:	Indonesian
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	150 minutes lectures and 100 minutes lab works per week.
Workload:	Total workload is 196.67 hours per semester which consists of 150 minutes lectures, 100 minutes lab work, 240 minutes structured activities, and 240 minutes individual study per week for 16 weeks.
Credit points:	4 SKS (6.48 ECST)
Prerequisites course(s):	Electrical Circuit Analysis (FSK6308)
Course Outcomes	CO1. Able to specify electronic devices working principle. CO2. Able to analyze analog electronic circuit. CO3. Able to design analog electronic devices.
Content:	Semiconductor, p-n junction, application of diode in circuit, bipolar transistor, field effect transistor and amplifier (transistor and operational).
Study / exam achievements:	The final mark will be weight as follow:

No	CO	Assessment Object	Assessment Technique	Weight
1	CO1, CO2, CO3 and CO4	a. Assignment b. Project c. Lab Work d. Mid e. Final Exam	Project, Performance test, Written test	20% 20% 20% 20% 20%
			Total	100%

Forms of media:	Board, LCD Projector, Laptop/Computer
Literature:	1. Boylestad R., Nashelsky L., 1998, Electronic Device and Circuit Theory, Prentice Hall, New Jersey. 2. Sutrisno, 1986, Elektronika Teori dan Penerapannya 1. Bandung :Penerbit ITB.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1						√			
CO2						√			
CO3						√			
CO4						√			