Module Handbook

Name of Module	Basic Electronics 2		
Level of Module	Undergraduate (S-1)		
Code			
Subtitle			
Subject of Courses			
Semester/Year	4/2		
Coordinator	Drs. Imam Sucahyo, M.Si.		
Lecturers	1. Drs. Imam Sucahyo, M.Si.		
	2. Endah Rahmawati, M.Si		
	3. Abd. Kholiq, S.Pd., M.T.		
	4. Dzulkiflih, S.Si. M.T.		
	5. Meta Yantidewi, M.Si.		
Language	Bahasa Indonesia		
Classification in Curriculum	Mata Kuliah Wajib		
Learning Format/ duration per week	Per week:		
	2 hours of lecturing		
	(1 hour = 50 minutes))		
Workload	2 hours of lecturing, 2 hours of structured task for 15 weeks = total 30		
	hours of lecturing/semester		
Credit System Unit	2		
Prerequisites	Basic Electronics 1		
Learning Outcomes	1. Students are able to analyse the working principles of the BJT transistor by providing some relevant examples.		
	2. Students are able to analyse the working principles of field effect		
	3. Students are able to analyse the operational amplifier working		
	principle (op-amp) by giving some relevant examples.		
	4. Students are able to explain the basics of digital electronics by		
	providing some relevant examples.		
	5. Students are able to apply (basic concepts of basic electronics 2) in		
	accordance with the development of science and technology and		
	standards		
Content	The Basic Electronics 2 course covers the working principles and		
	application of BJT transistors, JFET field effect transistors, op-amp		
	characteristics and circuits, and the basic material of digital electronics.		
Attributed soft skill	High-level proficiency in basic electrical concepts 2		
Ability to apply basic electrical concepts 2			
	Ability to solve problems regarding basic electrical concepts 2		
	Ability to work together in class assignment groups (teamwork)		

Learning Achievement	Students are considered competent and pass if they get at least a			
	minimum test score of 68 (SS and S), and structured activities			
	(Assignments / A) and participatory activities (P)			
	The final grade (FG) is calculated according to the formula:			
	FG = (2xP)+(3xA)+(2xSS)+(3xS)			
	10			
	Convert the 0-100 scale value to a 0-4 scale and the letters are			
	arranged as follows			
	arangeu as ronows.			
	Alphabet	Number	Interval	
	A	4,00	85 ≤ A <100	
	A-	3,75	80 ≤ A- < 85	
	B+	3,50	75 ≤ B+ < 80	
	В	3,00	70 ≤ B < 75	
	B-	2,75	65 ≤ B- < 70	
	C+	2,50	$60 \le C+ < 65$	
	С	2,00	55 ≤ C < 60	
	D	1,00	40 ≤ D < 55	
	E	0,00	$0 \leq E < 4$	
Media	1. PPT			
	2. Simulation of Electronics Application (Electronic workbanch, Circuit			
References	3. Basic Electronics Practicum KII			
References	Bandung.			
	: Fundamentals and Applications.			
	on. Elesevier Ltd.			
	[3]. Boylestad, R., and Nashelsky, L. Electronics Devices and Circuits:			
	Theory. Seventh Edition. Prentice Hall. [4] Eloyd T. J. 2012. <i>Electronics Devices</i> . Prontice Hall			
	[5]. Rahmawati, E., Sucahvo, I., dan Kholig, A. 2017. Hand out Elektronika			
	Dasar 2			
	[6]. Rahmawati, E., Sucahyo, I., dan Kholiq, A. 2017. <i>Panduan Praktikum</i>			
	Elektronik	a Dasar 2		
Note	-			