Course Code		TKEE163126		
Course Name		Switching and Signaling		
Course Instructors		Wahyu Dewanto,		
Course Type		Selected Elective		
Course Classification		Engineering Topics		
Credit / Contact Hour per Week		2 / 100 minutes per W	Veek	
Course Description		This course (Switch	ing and Signaling, SS) examines the	
		concepts and theo	ries associated with communication	
		networks in genera	and telecommunication networks of	
		telephones in parti	cular. These Splicing and Signaling	
		Systems (manual on	automated) Connection Process Race	
		Connection device I	inking System Linking with Signaling	
		System, Signal signal	ing flow in connection system. Signaling	
		Processing System, S	Signaling Signal, Basic Element In SS	
		System. This course i	is given in semester 5 and is mandatory	
		subject of concentrat	tion of signaling system & electronics	
		specialization in tel	ecommunication field. This 2 credits	
		lecture should be	taken after following the Basic	
		Telecommunication	course even though it is not a	
		requirement.		
		In order for the stude	the assimument of field abcomptions to	
		to be more in-depth,	the assignment of field observations to	
		Things found in the fi	eld can be discussed in the classroom	
Prerequisites Courses		Telcommunication Er	gineering	
Covered Student Outcome		Fundamental and H	Engineering Knowledge (a)	
Learning Outcome	1. Students a	are able to understar	nd and be able to explain automated	
	switching	systems, recognize a v	ariety of automated switching systems,	
	and understand the processes and working mechanisms of various types of			
	automatic con- nections.			
	2. Students are able to understand and explain the basics of connecting			
	system			
	 Students are able to understand the linkage between the Linking system and the Signaling system, understand the signal signaling generation at 		the linkage between the Linking system	
its mechani 4. Students a		ism in the Step-by-step system. re able to understand and explain the signaling signal flow in		
	SS system.			
	5. Students are able to understand and explain the various forms		nd and explain the various forms of	
signaling a disadvantag 6 Students ar		and its classification, as well as its advantages and		
		e able to understand and explain an important part of the SPC		
	that is Register-Translator - Sender understand the mechanism of			
	General Tr	General Trunking in the SS system		
Topic	1. Introduction			
	2. Definition of connection and signaling (SS)			
	3. Linking System			
	4. Linking Systems (Continued)			
	5. Automatic Splicing (Continued)			
	6. Connection Process			
	7. Dasic Connection Device 8. Linking Systems and Signaling			
	9 Trunking Diagram on SS System			
	10. Signaling			
	11. Signaling (Continued)			
	12. Elements in the SS System			
_	13. Presentation and Discussion of Field Observation Results			
Direct Asessment				
Direct Asess		ment Plan	Measured Learning Outcome	
1	Assignments		LO2,LO3	

	Mid Exam	LO1,LO2,LO3		
	Final Exam	LO4,LO5,LO6		
Indirect Assessment	Questionnaire (EDOM)			
References	[1] Flood, J.E.,1994, Telecommunications Switching, Traffic and Networks,			
	Prentice HallEurope			
	[2] Freeman, R.L., 1994, Refere	nce Manual for Telecommunications		
	Engineering, 2nd Edition, John Wiley & Sons Inc., New York			
	[3] Viswanathan, T., 1992, Teleo	communication Switching Systems &		
	Networks, Prentice Hall of India, New Delhi			