Course Code			TKIT162207			
Course Name			Software Architecture			
Course Instructors			Selo; Warsun Najib			
Course Type			Required			
Course Classification			Engineering Topics			
Credit / Contact Hour per Week			2 /100 minutes per Week			
Course Description			This course will emphasize effective software design with emphasis on technology selection, planning workmanship, and also risk management in the development process. This course will prepare students to be professional in software such as systems analyst, software architect, and enterprise architect			
Prere	quisites Courses					
Covered Student Outcome			Fundamental Engineering Knowledge (a) Development of Engineering Solution (b) Modern Tools Utilization (e)			
Learr	ning Outcome		1			
 					Study Program	
	I				Student Outcome	_
No	Learning Outco			-	SO(a) - SO(k)	-
1.			ortance and role of so	ftware	Fundamental	
		-	ftware systems		Engineering Knowledge	_
2.	using various	a able to describe a software architecture Modern Tools Utilization s documentation approaches and l description languages				
3.	Student can use well-understood paradigms of software architecture for designing new systems			ware	Development of Engineering Solution	
4.	and technologi	nts can discuss and evaluate the current trends echnologies such as model-driven architecture, e-oriented architectures, and cloud-based are.			Fundamental Engineering Knowledge	
Topic		 b. Software A c. Modeling d. Quality A e. Visualizin f. Document g. Design Pa h. Middlewa i. Model-Dri j. Service-O k. Dependen l. Architectu 	ng software architecture ting Software Architectu	re hnologie	es	
Direct	t Asessment					
		Direct Asessr			red Learning Outcome	
				L01, L0		
		Mid Exam LO1, I		,	,	
т 1.		Final Exam		LO3, LO	<i>J</i> 4	
indire	ect Assesment	Questionnaire	and direct communication	on		

References	• Ian Gorton, Essential Software Architecture, 2 nd edition, Springer. 2011
	 Eric M. Dashofy, Nenad Medvidovic, Richard N. Taylor. 2009. Software Architecture: Foundations, Theory, and Practice. John Wiley & Sons Michael Bell. 2016. Incremental Software Architecture. John Wiley &
	Sons
	• Rick Kazman, Paul Clements, Len Bass. 2012. Software Architecture in
	Practice, Third Edition. Addison-Wesley Professional.
	• Tilak Mitra. 2015. Practical Software Architecture: Moving from System Context to Deployment IBM Press.