Course Code		TKIE161103P	
Course Name		Fundamentals of Programming Lab Work	
Course Instructors		Adhistya Erna Permanasari	
Course Type		Required	
Course Classification		Engineering Topics	
Credit / Contact Hour per Week		1 / 50 minutes per Week	
Course Description		The main purpose of this course is to encourage students' technical and analytical skills in implementing basic	
		programming concepts to solve various problems.	
Prerequisites Courses		Fundamentals of Programming (TKIE161103)	
Covered Student Outcome		Development of Engineering Solution (b)	
		Data and Experiment (d)	
		Modern Tools Utilization (e)	
		Multidisciplinary Teamwork (h)	
Learning Outcome	1. Students are able to implement and analyze the use of data types and		
	operators in C / C ++.		
	2. Students are able to apply and analyze the concept of selection control		
	structure, recurrence control, recursive, and combinations.		
	3. Students are able to apply and analyze the concept of modularity and		
	communication among modules in C / C ++.		
	4. Students are able to use and analyze arrays, structures and unions, and		
m ·	dynamic data types in programming.		
Topic	1. Introduction to GCC		
	2. Operator and Data Types 3. Selection Structure		
	4. Repetition Structure		
	5. Pointer & Array		
	6. I/O Function		
	7. Module		
	8. Final Projects		
Direct Asessment	0. 1110111010000		
Direct risessment	Direct Asess	ment Plan	Measured Learning Outcome
	Final Exam	ment i ian	LO1, LO2, LO3, LO4
	Tillai Exalli		101, 102, 100, 104
Indirect Assesment	Questionnaire	and direct communicati	on
References	[1] Robertson, L. Anne, 2012, Simple Program Design, Thomson		
100101011000	Course Technology, United States of America.		
	[2] B. Tucker, 1995, Fundamentals of Computing I, McGraw-Hill, Inc.,		
	United States of America.		
	[3] L. Wear, 1991, "Computers", McGraw-Hill, Inc., United States of		
	America.		
	[4] Hanly, Jeri R., et.al., 1993, Problem Solving and Program Design in		
	C, Addison Wesley Publishing Company.		