Mobile Application

Module name	Mobile Application	
Module level	Undergraduate	
Code	IF221201	
Courses (if	Mobile Application	
applicable)		
Semester	5/6	
Lecturer	Yisti Vita Via, S.ST, M.Kom (PIC)	
Language	Bahasa Indonesia and English	
Relation to	Elective; 5th/6th semester	
curriculum		
Type of teaching,	Lectures, < 60 students,	
contact hours		
Teaching	simulation, case study, project-based learning, problem-based	learning
Methods		_
Workload	1. Lectures: 3 sks x 50 = 150 minutes (2 hours 30 minutes) per	week.
	2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) p	er week.
	3. Private study: 3 x 60 = 180 minutes (3 hours) per week	
Credit points	3 credit points (sks)	
Requirements	A student must have attended at least 80% of the lectures to s	sit in the exams.
according to the		
examination		
regulations		
Mandatory	Software Engineering	
prerequisites		
Courses	Within this course, students will gain proficiency in the o	·
description	mobile applications, encompassing integrated development	· I
	infrastructure, design, as well as the development and te	-
	applications connected to databases, with the objective	of addressing
ļ	real-world challenges.	
Learning	After completing this module, a student is expected to:	21 22 21 212
outcomes and	CO1 Students possess the ability to expound upon the	PLO9,PLO10
their	definitions and terminology associated with mobile	
corresponding PLOs	application development. Furthermore, they demonstrate	
PLOS	competence in engaging in discussions concerning exemplars of correct and effective mobile application	
	development, referencing published journal sources,	
	authoritative literature, and market-available mobile	
	applications. (C2, A2)	
	CO2 Students are proficient in crafting the User Interface	PLO9,PLO10
	(UI) and User Experience (UX) of mobile applications,	1 203,1 2010
	adhering to established principles as per published journal	
	references, authoritative literature, and current articles	
	featuring expert opinions. (C3, P3)	
	CO3 Students demonstrate proficiency in applying and	PLO9,PLO10
	advancing through each stage of mobile application	,
	development, encompassing both theoretical concepts and	
	practical implementation. This includes the utilization of	
	programming languages, frameworks, database design, as	

	well as the implementation of sound principles in UI and UX design. (C6, P4)	
Content	Introduction to mobile application programming; Designing User Interface (UI) and User Experience (UX) for mobile applications; Android Activity; UI Fragments; Menu and Dialog design; Listview, Gridview, and Recyclerview Utilization; SQLite database management; Integration of Google APIs within applications; Procedures for the publication of applications on the Google Play Store; individual project assignments	
Media employed	LCD, whiteboard, websites, books (as references), online meeting, etc.	
Assessments and	One written Midterm assessment (60 minutes) and one final oral exam (30	
Evaluation	minutes), two short computer-based quizzes, takehome written assignments	
Study and	The final grade in the module is composed of:	
examination	• Two short computer-based quizzes: 15% x 2 = 30%	
requirements	Take-home written assignments: 15%	
and forms of	Written Midterm assessment: 25%	
examination	• Final oral exam: 30%	
	Students must have a final grade of 55.6% or higher to pass.	
Reading List	 Grant Allen, Android for Absolute Beginners: Getting Started with Mobile Apps Development Using the Android Java SDK, 2021. John Horton, Android Programming for Beginners: Build In-depth, Full-featured Android Apps Starting from Zero Programming Experience, 3rd Edition, 2021. 	