

MODULE HANDBOOK DESCRIPTION

Module designation	Web and Mobile Programming		
Code	FBD3212		
Semester(s) in which the module is taught	6 / third year		
Person responsible for the module	A.S.Rachman, ST., MT.		
Language	Indonesian		
Relation to curriculum	Elective for Computer Engineering		
Teaching methods	lectures, small group discussion, project & case base method.		
Workload (incl. contact hours, self-study hours)	Contact minutes every week, each week of the 16 weeks/semester: • Lectures: 2 x 50 minutes • Exercises and Assignments: 2 x 60 minutes • Self-study: 2 x 60 minutes. Total study hours = 5 hours 40 minutes/week.		
Credit points	2 SKS (~3.2 ECTS)		
Required and recommended prerequisites for joining the module	-		
Module objectives/intended learning outcomes	Students are able to differentiate design techniques, programming concepts and database concepts of web and mobile-based.	PLO3 (L)	
	 Students are able to plan the concept of developing mobile applications that are equipped with local storage features both filebased and relational databases. Students are able to plan mobile applications that are built with backend services and other web services to enrich application features and meet the needs of mobile applications for enterprise scale. 	PLO4 (H)	

	 4. Students are able to produce content or media products that have creative and objective values. 5. Students are able to implement and test the concepts learned to create android mobile applications. 	PLO5 (M)
Content	1. HTML 5, CSS, JavaScript, PHP 2. Arrays, Objects, Form Handling, Files and Directories, Sessions and Cookies. 3. Databases 4. Guestbook, News Application, Business Registration 5. Content Management System 6. Android programming 7. Activities and Intents 8. Layout for Interface 9. Android Widgets 10. Storing Data using Arrays and Files 11. Database on Android 12. File Distribution and Application Distribution 13. Location Services 14. Android Application Development Project	
Examination forms	- Case based - Project based	
Study and examination requirements	The final grade in the module is composed of: a. Case I assessment: 20% b. Case II assessment: 20% c. Project based: 60% Students must have a final grade of 65% or higher to pass	

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- 5. Wildenius, Michael., Axmark, David., MySQL AB. 2003. MySQL Reference Manual Documentation From the Source. O'Reilly Community Press: Swedish.
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- 10. Official Android Developer Documentation http://developer.android.com/.
- 11. Esposito, Dino, Architecting Mobile Solutions for the Enterprise, 2012, O'Reilly Media.
- 12. Iversen, Jakob & Eierman, Michael, Learning Mobile App Development A Hands-on Guide to Building Apps with iOS and Android, 2014, Pearson Education.
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