Document Code



Universitas Negeri Surabaya Faculty of Engineering, Undergraduate Study Program in Informatics Engineering

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Courses			CODE				Co	urse	Famil	y		Credi	t Wei	ght		SEM	ESTER	Co	mpilation te
Mobile Progra	amming		552020306	3								T=3	P=0	ECTS	=4.77		5	July	y 17, 2024
AUTHORIZATION			SP Developer			Coi	Course Cluster Coordinator			Study Program Coordinator									
Lamina Barbara										Aditya Prapanca, S.T., M.Kom.									
Learning model	Project Based I	_earnin	ng																
Program Learning	PLO study pro			ged	to th	ne co	urse	:											
Outcomes (PLO)	Program Obje	1	` '																
(1 20)	PO - 1		nts can defin								icatio	n soft	ware (mobile	e web	and na	ative).		
	PO - 2		nts can desig	gn an	d des	sign n	nobile	е арр	licatio	ns.									
	PLO-PO Matrix	K I																	
		-																	
		<u> </u>	P.O																
			PO-1																
		<u>L</u>	PO-2																
	DO Matrice at the		-f -	:		(Ch	DO)											
	PO Matrix at th	ie ena	or each lea	armir	ig Sta	age (Sup-	·PU)											
			P.O									Wee	.l.						
			P.O	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		PC) 1	_		3	4	3	0	· ·	0	9	10	11	12	13	14		10
		PC																	
			J-2																
Short Course Description	This course provarious mobile- Understanding of testing, error fir programming on	based of the to nding a	applications ools and IDE nd repair of	by j use mol	paying ed. Ui pile-ba	g att nders ased	entio	n to`	imno	rtant	asne	ects in	n the	mobil	e soft	ware	develo	nmen	t process
References	Main :																		
	 Bai, G. 2011. JQuery Mobile First Look. Birmingham: PACKT Publishing. Boonstra, L. 2014. Hands-On Sencha Touch 2: A Real-World App Approach. United States of America: O 19Reilly Media, Inc. Gifford, M. 2012. PhoneGap Mobile Application Development Cookbook. Birmingham: PACKT Publishing. Myer, T. 2012. Beginning PhoneGap. Indiana: John Wiley & Sons, Inc. Wolber, D., Abelson, H., Spertus, E., Looney, L. 2015. App Inventor 2: Create Your Own Android Apps. United States of America: O 19Reilly Media, Inc. Beer P, Simmons, C 2015. Hello App Inventor! Android Programming For Kids And The Rest Of Us. Manning Publication Co. 																		
Supporting	Dodik Arwin Der	mawan	S.ST S.T	МТ															
lecturer	Bonda Sisephap Rindu Puspita W	utra, M	. Kom.		•														

Week-	Final abilities of Evaluation Week- each learning stage			He Learr Studer [Es	Learning materials	Assessment Weight (%)	
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)	References]	3 ()
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Create a simple application using HTML 5 and JQuery Mobile	- Applying HTML 5 syntax- Identifying JQTouch- Identifying Sencha Touch- Explaining iUI- Explaining iWebKit- Identifying page structure- Creating and deleting dialogs		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50			0%
2	Implemented JQuery Mobile configuration and content management	1.Apply default configuration 2.Implement event handling 3.Display content 4.Using columns and grids in content 5.Using collapsible blocks		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50			0%
3	Create toolbars and buttons with JQuery Mobile	- Applying toolbar types - Applying button types - Displaying buttons		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50			0%
4			Form of Assessment : Participatory Activities				25%
5	Understand basic usage of PhoneGap	- Explains the history of PhoneGap - Explains the basics of using PhoneGap on Android devices		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50			0%
6	Implemented the use of accelerometer and Geolocation on PhoneGap	1.Explains the options and arguments in the accelerometer 2.Detect device movement using the accelerometer 3.Explains position information and object coordinates 4.Explain the options and arguments in geolocation		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50			0%

7	Create applications containing media	- Identify types of media files - Implement the	Form of Assessment :	Scientific approach, presentations,		25%
	using PhoneGap	use of media objects - Implement error handling	Participatory Activities	lectures, questions and answers, discussions and problem- based learning 2 X 50		
8						0%
9	Implement user interface components on Android devices	- Apply layout settings - Apply orientation settings		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		0%
10	Create a basic user interface on an Android device	- Identify basic view types - Implement basic views		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		0%
11						0%
12	Loads advanced user interface on Android devices	1.Implement menu creation 2.Processing images 3.Added time display 4.Implement web view		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		0%
13	Create a database connected application in Android	- Apply application connection techniques to the database		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		0%
14	Create a user interface in Applnventor!	1. Create a user interface using a designer 2. Create a user interface using built-in components 3. Apply screen, layout and canvas settings		Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		50%

15	Create variables, branches, procedures, lists and loops in AppInventor!	1 Implement variable naming and calling. Change variables 2.Implement branching by using variables as conditions 3.Implement comments 4.Implementing lists 5.Implement looping	Scientific approach, presentations, lectures, questions and answers, discussions and problem- based learning 2 X 50		0%
16					0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	50%
		50%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each
 Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level
 of their study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
 are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and
 knowledge
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO) is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.