Course	PIT21E202	Course	Mahila Am	Course	_	Dissiplina Floativa Course	L	Т	Р	С	
Code	PITZTEZUZ	Name	Mobile Ap	Category	D	Discipline Elective Course	3	0	2	4	
	0	27						\$4	\$8	20	50 3
Pre-req	uisite Nil		Co-requisite	Nil	Progres	sive	Nil				
Cours	ses		Courses		Course	es					
Course	Offering	Comp	uter Science	Data Book /	Nil						
Departm	nent		/ 60	Codes/Standards	A	A .					
		3355									
Course	-	h a m	af laguning th			14					

Course Learnin Rationa		The purpose of learning this course is to	Le	earni	ng Program Learning Outcomes (PLO)															
CLR-1	Learn a	nd apply software patterns for the ment of the application models	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2	LR-2 Learn and work within the capabilities and limitations of mobile devices.)	NA.	此		rch		13									
CLR-3	Design, implement and deploy mobile applications using an appropriate software development environment.			Expected Proficiency (%)	Attainment (%)	Engineering Knowledge		Design & Development	Design, Resea	ge	0	Z	3	n Work		nance	g.			
CLR-4				oficie	tainn	Kno	Analysis	velo	sign	ool Usage	Culture	\$ t		Team	tion	& Fin	earning			
CLR-5	LR-5 Develop, distribute and monetize the mobile applications			ted Pr	_	eering	m An	A De	sis, De	-	ంర	nmen		dual &	unica	t Mgt.	Long Le	-	2	က
			Level of	Expec	Expected	Engine	Problem	Design	Analysis,	Modern	Society	Environment	Ethics	Individual &	Communication	Project	Life Lo	PSO -	PSO -	PSO -
Course Learnin Outcon (CLO):	ng	At the end of this course, learners will be able to:		2						4	1	Y	4		/					
CLO-1	Build mo	bile applications	3	80	70	н	Н	М	A	0	•	/-	•	Н	Н		-	М	н	н
CLO-2	Use the reusability concepts to rebuild the existing applications for the present day need without losing the nature of the app's behavior			85	75	Н	Н	Н	Н	Н		М	-	Н	н	-	-	М	н	н
CLO-3	3 Understand the concept of virtualization for running the code using emulators			75	70	Н	Н	М	Н	Н	-	М	-	Н	Н	-	-	M	Н	н
CLO-4				85	80	н	Н	Н	-	-	-	-	-	Н	М	-	-	M	Н	Н

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CLO-5	Handle data storage	3	85	75	Н	M	M	М	М	М	М	-	Н	Н	-	М	M	Н	н
CLO-6	Simulate existing applications with rich UIs	3	80	70	Н	Н	М	•	-	-	-	-	Н	Н	-	-	М	Н	Н



Duration	(Hour)	15	15	15	15	15	
S-1		History of mobile environments	Mobile Development: Introduction, Advantages, Limitations	Android Overview	Understanding Activity	Animations	
S-2	90000 500		Features useful for mobile phones	Features, Architecture	Activity Lifecycle	OpenGL	
	SLO-2	Development for mobile environments	Geolocation				
S-3	SLO-1 SLO-2	Differences from traditional application development	Offline applications	Android applications	Multi device suppot	Wireless Connections	
S- 4-5	SLO-1 SLO -2	Laboratory 1: Understanding the installation procedure of android environment	Laboratory 4: Animations and Graphics (2D/3D)	Laboratory 7: Android libraries	Laboratory 10: Intents	Laboratory 13: Location Aware Applications	
S-6	SLO-1 SLO-2	Trends in mobile development	Offline storage	Android framework	Fragments	Data Syncing	
S-7		Understanding emulator Knowledge about build tools	Audio and Video	Android Kernal	MediaPlayer: Audio	Best Practices for the development of remarkable applications	
S-8	SLO-1	Web applications and mobile applications	Framework: Phone Gap	Application stores and publishing	Image Capture	Mobile App Distributio	
S- 9-10	SLO-2	Laboratory 2:Understanding Virtualization and enabling it in the Operating system to support emulation process	Laboratory 5: Framework: HTML5	Laboratory 8: Android Ecosystem	Laboratory 11: MediaPlayer: Video	Laboratory 14: 1Monetization	
S-11	SLO-1 SLO-2	Understanding SDK tools	Jquery Mobile Framework	Android Development Tools, SDK, Emulator	Color	Focusing on security	
S-12	SLO-1 SLO-2	mobile websites	Comparison of framework	Android Activity Lifecyle	Font	Monetization Models	
S-13	SLO-1	Google services for mobile applications	features and utilities	Android Layouts	Information Design Tools	Knowing Monetization tools	
S-	SLO-2			Laboratory 9:	Laboratory 12:	Laboratory 15:	

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14-15	SLO-2	Laboratory 3: Installing	Laboratory 6: Using	Using Android	Using Android	Using Color, Font,
		Android and setup	HTML5 implement	implement Activity	implement	Intent
		environment	geolocation, cookies	methods, Layout,	MediaPlayer, Images	
				TextView, Password,	ProgressBar,	
				Button	RatingBar	



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Learning Resources	2.	Ed Burnette, (2010) "Hello Android: Introducing Google's Mobile DevelopmentPlatform", The Pragmatic Programmers, 3rd edition. (For Units I to III) Jeff McWherter and Scott Gowell, (2012),Professional Mobile Application Development", Wrox. (For Units IV to V)	2.	Charlie Collins, Michael Galpin and Matthias Kappler, (2012), "Android in Practice", DreamTech. James Dovey and Ash Furrow, (2012), "Beginning Objective C", Apress.
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	Bloom's		Continous Learning Assessment(50% Weightage)									
Level of Thinking		CLA – 1 (10%)		CLA -	2 (10%)	CLA -	3 (20%)	CLA –	we			
		Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory		
Level 1	Remember	20%	20%	15%	15%	15%	15%	15%	15%	15%		
	Understand	FA	- 20	1 1 1 1 1 W	Vs / /	B 105						
Level 2	Apply	20%	20%	20%	20%	20%	20%	20%	20%	20%		
	Analyze		1 7 W. S.	a great may	· 10 4 7 1	(A)						
Level 3	Evaluate	10%	10%	15%	15%	15%	15%	15%	15%	15%		
	Create		NY -	Mary Wall		11.00						
	Total	10	00 %	10	00 %	10	00 %	10	00 %			

CLA – 4 can be from any combination of these: Assignments, Seminars, Scientific Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications etc.,

Course Designers										
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts								
Mr. S. Karthik, IT Analyst, Tata	Dr. Neelanarayanan,, Professor, School of Computer Science and	Dr. P.Muthulakshmi								
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