Course	HCCOCCO	Course	ANDROID BASICS	Course	c	Skill Enhancement Elective	L	Т	Р	С
Code	UC32U3U3L	Name	ANDROID BASICS	Category	,	Skill Enhancement Elective	0	0	2	1
		**								

Pre-requisiteCourses Nil	Co-requisiteCourses	Nil	ProgressiveCourses Nil
Course Offering Department	Computer Science	Data Book / Codes/Standards	Nil

Course Learning Rationale (CLR):	he purpose of learning this course is to:	Le	earni	ing				Р	rog	ram	Learn	ing (	Outco	ome	s (PL	0)			
CLR-1: Develop mobile applic	ations	1	2	3		1	2	3 4	!	5 6	7	8	9	10	11	12	13	14	15
CLR-2: Design UI for activities	of mobile applications						pts		D .			e				. 0			
CLR-3: Get familiarized with broadcast receivers and Internet services							cel	1	90	0		Data		Skills	Skills			avior	
CLR-4: Work with SQLite Database and content providers						1.	Conce	pholynous		zati	pg.	et	Skills					hav	ng
CLR-5: Work on interactive ac	ctivities that comprises an application	kın	oficienc	Attainm	10	-	1	2	2 :	cializ	eling	du		olving	nication	Skills		Beh	ırning
CLR-6: tested application (usi	ng emulator) and export the application to a mobile phone	hin	Pro	Att	+	2 9	Rel		_	e e	opo	nterp	tive	Sol	cat	S		nal	Lea
		1	eq	ed	2	= a	ication of with Rela	d i	5 '	to t	م ک	e, 1	tigat	em (	n	ica	=	Siol	Long
Course Learning Outcomes (CLO):	At the end of this course, learners will be able to:	Level	Expecte (%)	Expected	1000	Knowl	Applica Link wit	Disciplin	1000	Skills in Ability 1	Knowl Skills in	Analyz	Investi	Proble	Commu	Analyt	ICT Skills	Profes	Life Lo
CLO-1: develop android activi	ties that include date, time, toast,	3	80	70		L	Н	- H		L -	-	-	L	L	_	Н	-	-	-
CLO-2: develop activities invo	lving interactive components (UI)	3	85	75		М	Н	N	1	L -	-		М	L	-	Н	-	5	·-
CLO-3: create activities that m	nakes use of images, sound files	3	75	70		М	Н	1 H		L -	-	-	М	L	-	Н		-	-
CLO-4: able to create a contact list that simulates a kind of the one in mobile phones (SQlite)				80		М	H	1 H	1	L -	-	-	М	L	848	Н		-	-
CLO-5 : make use of spinners, progress bar to simulate loading files with respect to size of file , time				75		Н	H	ΛН		L -	-	-	М	L	3 <b>-</b> 72	Н	::	-	.70
and speed of network		3	85	/3															
CLO-6: export the activities to the mobile phone and cheer up the work of his own						L	H	. H		L -	-	-	L	L	11 - 1	Н	-	_	-

			71	EARN-LEAP-T	FAD					
	ration lour)	6	6	6	6	6				
S-1	SLO-1	Mobile Application development	Layouts - introduction	Picker view – time picker	Displaying Menus – Options menu	Data persistence				
	SLO-2	Mobile Application trends	Linear, Scrollview	Date picker	Program Explanation	Types of Data persistence				
	SLO-1	Android overview	Absolute, Table,	Listviews – list view	Context menu	Shared User preferences				
S-2	SLO-2	Android versions	Relative,Frame	Spinner view	Program Explanation	Program Explanation				
	SLO-1	Android open stack	Resize and reposition	Web view	Helper methods for menus	Managing data using SQLite				
SLO-2 features		features	Screen orientation	Displaying pictures with views	Program Explanation	Program Explanation				

S-4 SLO-2	development	Checkbox	ImageView	Broadcasting and service	Program Explanation
61.0.1	A			Di oddedatnih dila aci vice	riogiani Explanation
SLO-1	-1 Anatomy of Android applications	ToggleButton, RadioButton	ImageSwitcher	Sending SMS	Location based services: Display map
	-2 Activity and Life cycle	RadioGroup	Simple program for image switcher	Program Explanation	Program Explanation
	-1 Implicit Intent	ProgressBar	Gridview	Receiving SMS	zoom control
S-6 SLO-2	-2 Explicit Intents	AutocompleteText	Simple program for grid view	Program Explanation	Program Explanation

Learning Resources Publications  Resources Platform". The Pragmatic Publishers. Third Edition  1. WeiMeng Lee (2012), "Beginning Android Application Development", Wrox Publications  4. Z  Publishers Third Edition	Reto Meier, (2012), "Professional Android 4 Application Development", Wrox ablications ZigurdMednieks, Laird Dornin, Blake Meike G, Masumi Nakamura, (2011), "Programming Android: Java Programming for the New Generation of Mobile Devices", OReilly
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Learning Assess	sment													
		Continuous Learning Assessment (100% weightage)												
Level	Bloom's Level of Thinking	CLA-1 (20%)	CLA-2 (20%)	CLA-3 (30%)	CLA-4 (30%) #									
		Practice	Practice	Practice	Practice									
	Remember	100/	100/	200/	150/									
evel 1	Understand	10%	10%	30%	15%									
aual 2	Apply	F00/	F00/	400/	F00/									
evel 2	Analyze	50%	50%	40%	50%									
aval 2	Evaluate	400/	400/	200/	250/									
evel 3	Create	40%	40%	30%	35%									
	Total	100 %	100 %	100 %	100 %									

<sup>#</sup> CLA – 4 can be from any combination of these: Assignments, Seminars, Short Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper 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 Engineering, VIT	1. Dr.S.Umarani				
Consultancy Services						

Course UCS20S04L	Course	VISUALIZATION	TOOL	Course	c	Skill Enhancemer	nt Flective	L	Т	Р	С
Code	Name	VISUALIZATION	TOOL	Category	, j	Skill Elillancemen	It Elective	0	0	2	1
			Bridger Capt S	May /	50	Progressive					
Pre-requisiteCourses	Nil	Co-requisiteCourses	Nil		Section?	Courses	Nil				
Course Offering				, V75	1000						
Department		Computer Science	Data Book / Codes/Stan	dards	200		Nil				

Course (CLR):	Learning Rationale	The purpose of learning this course is to:	ı	.earr	ing			1	ż	Pro	gran	n Le	arni	ng O	utco	ome	s (Pl	LO)			
<b>CLR-1</b> :	Analyze and visualize	e data	1	2	3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Navigate to data sou	rces. Download data in proper format						pts	-	a				ata							
CLR-3:	Create visualizations	that accurately represent the source dataset		oficiency	ut			ce		gp	ion			Dai		Skills	Skills			ior	
CLR-4:	CLR-4: Use Tableau to perform various types of analysis on data sets							Conce	2	wle	zat		<u>8</u>	et	Skills	SS	S			Behavior	ng
CLR-5:	CLR-5: Data visualizations that demonstrates an understanding of data				Attainmen	A	1)	of (	are	Knowledge	Specialization	LIIIZE	Modeling	Interpret		Solving	ation	Skills		Be	Learning
CLR-6:	: Use various methods for data visualization				_	44.3	nta		2		oec	5 9	lod	nte	.i.	Sol	cat			nal	Le
8.7	52		1	ted	ted		me	cation	ine	cedural	in S	op op	in	100000000000000000000000000000000000000	gat	E	n	ica	IIs	Sio	Long
Course (CLO):	Learning Outcomes	At the end of this course, learners will be able to:	Level	Expected	Expected		-undamental	Applic	Discipl	Proce	Li Li	ability Knowd	Skills i	Analyze,	Investigative	Problem	Communica	Analytical	ICT Skills	Profession	Life Lo
1	Design effective data	a visualizations in order to provide new insights	3				L	Н	-	Н	L	-	-	-	L	L	-	Н	-	-	-
CLO-2 :	Find and select appr the data	opriate data visualization in order to create a better understanding of	3	85	75		М	Н	L	М	L	-	-	-	М	L		Н	-	-	-
CLO-3:	3: Create Heat map, word cloud and different type of charts as visualization		3	75	70		М	Н	М	Н	L	-	-	17.0	Μ	L	1.5	Н	-	-	-
CLO-4:	: Cite data from other sources in visualizations and documentation		3	85	80		М	Н	М	Н	L	-	-	-	М	L	-	Н	-	-	-
CLO-5:	D-5: Properly document and organize data and visualizations		3	85	75		Н	Н	М	Н	L	27	_	20	М	L	12	Н	121	2	121
CLO-6:	O-6: Create dashboard for data visualization		3	80	70		L	Н	-	Н	L	-	-	7.00	L	L	8.50	Н	-	-	-