RGPV WING) BHO	(DIPLO	MA	OBE CURRI	CULUM FOR T	HE	FORM	AT-3	Sheet No. 1/5	
Branch	Informa	tion	Technology		Sem	ester	VI		
Course Code			Course Name	Android Applic	ation	Devel	opmen	t	
Course Outco	me - 1	Mak	e use of Androi	d application			Teach Hrs	Marks	
Learning Out	come 1	_	lain Android ard ures	chitecture , tool	&		6	10	
Contents		• .	 Overview of Android OS, Features, Applications Android application life cycle, Android Architecture, Android Versions Android development Tool(ADT) 						
Method Assessment	of	Exte	rnal: End semest	er theory examin	ation	(Pen pa	aper tes	st).	
Learning Out	come 2	Exp app	lain different lication	components	of A	Android	6	10	
Contents		•	Android apps con Deploying applica Manifest file, buil	•	sourc	es			
Method Assessment	of	Inte	rnal: Mid semeste	er theory examina	ation	(Pen pa	per tes	t).	
Learning Out	come 3		elop simple ironment	application i	n a	ndroid	12	10	
Contents			Creating AVD ma	ndroid studio, so nager, Launching hello Android" ap	Emu	lator	OK envi	ronment,	
Method Assessment	of	Exte	rnal: Laboratory	observation and v	viva v	oce.			
RGPV WING) BHO	(DIPLO	MA	OBE CURRI	CULUM FOR T	HE	FORM	AT-3	Sheet No. 2/5	
Branch	Infor	matic	nation Technology Semester				er VI		
Course Code			Course Name	Android Applic	ation	Devel	opmen	t	
Course Outcome – 2 Apply UI Design Views & layouts						Teach	Mark		

								Hrs	s	
Learning Outco	ome 4		plain views plications	and	layout	for	android	6	10	
Contents		• '	Layouts overvion Views: Text vie Padding & Marg	w, Im	age view	, List \	view, Grid	View, S	tack View	
Method Assessment	of	Exte	rnal: End seme	ster t	heory exa	ıminat	tion (Pen p	aper te	st).	
Learning Outco	ome 5	Exp	plain Menus a	nd dia	alogs for	andr	oid apps	6	10	
Contents		•	Define Menu St Using context alert dialog		•	_	•			
Method Assessment	of	Inter	nternal: Mid semester theory examination (Pen paper test).							
Learning Outco	ome 6	Exp	periment with	UI D	esigns			12	10	
Contents		•	Create UI Des Text view widg Creating button Date picker	et ns like	e Radio b	utton,	check bo	_		
Method Assessment	of	Exte	rnal: Laborator	y obse	ervation a	ind viv	va voce.			
Learning Outco	ome 7	Dev	elop navigatio	on in a	android			12	10	
Contents		Crea	te Action Bar, I	Naviga	ation tabs	, drop	-down list			
Method Assessment	of	Inter	rnal: Lab Obser	vation	n/Assignm	nent				
RGPV WING) BHO	(DIPLO Pal	MA	OBE CURF	RICUL	UM FOR	THE	E FORM	IAT-3	Sheet No. 3/5	
Branch	Inforn	natio	aation Technology Semester VI							
Course Code			Course Name	e A	ndroid A	pplica	ation Deve	elopme	nt	
Course Outcon	1e - 3		velop graphi apters	cs, f	ragment	acti	vities &	Teach Hrs	Marks	
Learning Outco	ome 8		ustrate grap plications	hics	and	fragn	ments i	n 6	10	

Contents Method of	•	Graphics Resources: ✓ Images: bitma ✓ Transitions, To Fragments lifecycle a	ap images, JPE ext Animation & activities(ad	ding, rer	novin					
Assessment	0.4	!:				_	10			
Learning Outcome 9		Outline adapters in android apps 6 10 Adapters: Overview , Types (base adapters, array adapter,								
Contents	1	pters: Overview , Ty array adapter, simple			ray ad	dapter,				
Method of Assessment	Exte	External: End semester theory examination (Pen paper test).								
Learning Outcome	Ехр	Experiment with UI Events 12 10								
Contents	onK	lementing onClick eyDown by using UI dling , onclick events	Events like ev	-						
Method of Assessment	Exte	External: Laboratory observation and viva voce.								
RGPV (DIPLO WING) BHOPAL	АМС	OBE CURRICULUM FOR THE FORM COURSE					Sheet lo. 4/5			
Branch Info	matio	on Technology	on Technology Ser			mester VI				
Course Code		Course Name	Android Ap	plicatio	n Dev	elopme	ent			
Course Outcome - 4	Illu	strate intents , not	ification serv	/ices	Tea Hrs	ch M	larks			
Learning Outcome	Ехр	lain android intent	& intent filte	ers		6	10			
Contents	•	Android intent: Intro Intent filters Intents activities: se			ıst int	ent				
Method of Assessment	Exte	External: End semester theory examination (Pen paper test).								
Learning Outcome 12	Ехр	lain Services and r	notifications			6	10			
Contents	•	Services: Overview , Life Cycle of Android Basics of notificati	Services							

			Notification								
Method Assessment	of	Exte	rnal: End semester	theory examin	ation	(Pen p	paper te	st).			
RGPV (I WING) BHOPA	DIPLO AL	MA	OBE CURRICU	LUM FOR TI	HE	FORM	ИАТ-З	Sheet No. 5/5			
Branch	Info	mati	on Technology		Sem	ester	VI				
Course Code			Course Name Android Application Development								
						Teach Hrs	Marks				
Learning Outcome Classify Android database 6 10							10				
Contents		•	 Android database ✓ Introduction, ✓ SQLite Database ✓ Content Providers Android database design consideration ✓ Opening & Creating database ✓ Querying a database: adding, updating & deletion 								
Method Assessment	of	Exte	rnal: End semester	theory examin	ation	(Pen p	paper te	st).			
Learning Outo	come	Exp	lain working of Co	ntent Provide	ers		6	10			
Contents		• (Android built-in coroviders, Creating co Case study on avail Appium.	ontent provide		tabase		content tool like			
Method Assessment	of	Inte	rnal: Mid semester/0	Quiz theory ex	amina	ation (Pen pap	er test).			
Learning Outo	come	Buil	d address book ap	pp			12	10			
Contents		• 4	Adding data to contact database								
Method Assessment	of	Inte	rnal: Lab Observatio								

NOTE: *"available" means latest tools / technology, since tools name mentioned as per current industry trends that may get change over course of time hence faculties are not restricted to teach or follow tools as mentioned, faculties can have their option with change of tool technology.

REFERENCE BOOKS:

S No	Title & Publication	Author
1.	Beginning Android 4 Application Development by Wiley publication	Wei-Meng Lee
2.	Android Programming for Beginners by Packt Publishing	John Horton
3.	Android for Absolute Beginners by Apress	Grant Allen
4.	https://developer.android.com/docs	Web resource
5.	https://www.javatpoint.com/android-tutorial	Web resource
6.	https://docs.microsoft.com/en-us/xamarin/android/	Web resource
7.	E-books/E-tools/Relevant software to be used as recommended by AICTE/RGPV	

RO	GPV (Diplo	ma Wing) Bhopal		SCHEME FOR LEARNING		Branch Code (C	Course Code		CO Code	LO Code	Format N	Vo. 4	
	\ 1	87 1	OUTCO	OME	I	0	4				1	1			
Course	Name	Android Application	Development						·						
CO Des	scription	Make use of Androi	d application												
LO Des	scription	Explain Android are	chitecture , tool & fea	itures											
		<u>'</u>		SCHEME O	F STU	DY									
S. No.		Learning Conto	ent	Teaching – Learning Method	I	_	tion of T	Γ-L	Teac h Hrs.	Pract /Tut Hrs.		Rs Requi	red Ren	mark	
1	OvervAndro	riew of Android OS, Fea oid application life	,	Interactive classroom teaching,	th	e conte	will explants and andouts		6	NIL	boar	douts, ch d, PPT, t k, charts,			

demonstration,

assignments,

quiz,

tutorial

students. Teacher will

conduct assignments/

quiz/tutorial to make

students practice their

knowledge.

video film.

Architecture, Android Versions

• Android development Tool(ADT)

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + Rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties should aware students about Android operating system abilities & functionalities.

RGPV (Diplo	ma Wing) Bhopal	SCHEME FOR LEARNING	B	ranch (Code	Course	Code	Code	Code	Format No. 4
	87 1	OUTCOME	I	0	4			1	2	
Course Name	Android Application	Android Application Development								
CO Description	Make use of Androic	l application								
LO Description	Explain different con	aplain different components of Android application								
		SCHEME	E CTI	IDV						

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	 Android apps components, App Resources Deploying application package Manifest file, build.gradle file 	Interactive classroom teaching, demonstratio n, quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	6	NIL	Handouts, chalk board, PPT, text book, charts, video film.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Mid semester theory examination	Pen Paper Test /Quiz / Short Answer	10	Test Paper + rating scale	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

- Building of .gradle file taken more time so for improving the performance of gradle, update it's time to time or do the below steps.
- In Android Studio go to File -> Settings -> Build, Execution, Deployment -> Build Tools -> Gradle
- Check the 'Offline work' under 'Global Gradle settings'

RGPV (Diplo	oma Wing) Bhopal	SCHEME FOR LEARNING	Bı	ranch (Code	Course C	Code	CO Code	LO Code	Format No. 4
	<i>3</i> / 1	OUTCOME	I	0	4			1	3	
Course Name	Android Application	ndroid Application Development								
CO Description	Make use of Androic	d application								
LO Description	Develop simple appli	Develop simple application in android environment								
	'	COHEME	E OTI	TDX/						

SCHEME OF STUDY

S. No.	Learning Content	Teaching — Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	 Installation of Android studio, setting up SDK environment, creating AVD manager, Launching Emulator Creating a new "hello Android" application 	4	Teacher will demonstrate major components inside the lab to students, students will practice, provide quiz, assignment etc., teacher will conduct remedial and tutorials.	NIL	12	Handouts, chalk board, PPT, text book, charts, Computer, IDE	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Method of Assessment Description of Assessment		Resources Required	External / Internal
1	Laboratory observation and viva voce.	Laboratory observation / work and viva voce	10	Observation schedule/check-list /rating scales /rubrics	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculty can be refer the official site (https://developer.android.com/studio/install) for downloading & installation procedure of Android studio & it's learning document. After Installing the IDE, must be enable virtualization technology from BIOS for creating the AVD & launching emulator.

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING	В	Branch Code			Co	Course Code		CO Code	LO Code	Format No. 4
		OUTCOME		0)	4				2	4	
Course Name	Android Application	Android Application Development										
CO Description	Apply UI Design Vie	ws & layouts										
LO Description	Description Explain views and layout for android applications											
SCHEME OF STUDY												

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	 Layouts overview: Using Linear, Relative & Frame Layout Views: Text view, Image view, List view, Grid View, Stack View Padding & Margin with views & layouts, Sliding drawer 	classroom	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	6	NIL	Handouts, chalk board, PPT, text book, charts, video film.	

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties & students can refer official site (https://developer.android.com/guide/topics/ui/declaring-layout) tutorial as learning contents.

RGPV (Diploma Wing) Bhopal		na Wing) Bhopal		SCHEME FOR LEARNING		Branch Code C			Course Code		LO Code	Format No. 4
	\ 1	8/ 1	OUTCOME			0	4			2	5	
Course Name Android Application Development												
CO Description Apply UI Design Views & layouts												
LO Des	scription	Explain Menus and	dialogs for android a	pps								
				SCHEME OF	STUI	DY						
S. No. Learning Content		Teaching — Learning Method	Description of T Process	Γ-L	Teach Hrs.		act. Hrs.	LRs I	Required		Remarks	

NIL

Handouts, chalk board,

PPT, text book, charts,

video film.

Teacher will explain

provide handouts to

students. Teacher will

conduct assignments/

quiz/tutorial to make

knowledge.

students practice their

the contents and

• Define Menu Structure,

submenus

Defining Menu items,

• Using context & Pop-up

menus, Adding Dialogs,

displaying alert dialog

Interactive

classroom

demonstration,

assignments,

teaching,

quiz,

tutorial

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Mid semester theory examination	Pen Paper Test /Quiz / Short Answer	10	Test paper + Rating scale	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties & students can be referring official site (https://developer.android.com/guide/topics/ui/menus) tutorial for Menus.

https://developer.android.com/guide/topics/ui/dialogs for Dialogs

RG	RGPV (Diploma Wing) Bhopal			CME FOR LEARNING		Branch Code Co			ourse C	ode	CO Code	LO Code	Format No. 4
	· · · · · ·	g) I	Ot	UTCOME		0	4				2	6	
Course	Name	Android Application	n Development									'	
CO Des	scription	Apply UI Design Vi	ews & layouts										
LO Des	scription	Experiment with Ul	Designs										
				SCHEME O	F STU	JDY							
S. No.		Laguring Conton	4	Teaching –Learnin	g	Descri	ption of	T-L	Teac	ch	Pract.	LRs	Damari
5. No.		Learning Conten	l	Method		Process			Hrs	.	/Tut Hrs.	Requir	red Remarl
1	• Create	e UI Design by variou	s UI Elements,	Interactive lab	Т	eacher`	will		NII	_	12	Handou	ts,
	Widgets, Adding Text view widget		classroom teaching,	d	demonstrate major					chalk			
	_	-	-	demonstration, quiz,	c	ompon	ents insid	le the				board,	
	• Creating buttons like Radio button, chec			aggianmanta		h to at						DDT tox	

lab to students,

provide quiz,

assignment etc., teacher will conduct remedial and tutorials.

students will practice,

assignments,

tutorial

box, Image Button, Date picker

PPT, text

book,

charts, video film.

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Lab Observation/Assignment	Laboratory observation / work and viva voce	10	Observation schedule/check-list /rating scales /rubrics	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties & students can be referring official site (https://developer.android.com/training/basics/firstapp/building-ui) tutorial for learning contents.

RG	SPV (Diplo	ma Wing) Bhopal		CME FOR LEARNING OUTCOME		Branch Code Co			Course Code		CO Code	LO Code	Format No. 4
	(p	··g / F ··-	Ol			0	4				2	7	
Course	Name	Android Application	Development										
CO Des	scription	Apply UI Design View	ws & layouts										
LO Des	scription	Develop navigation in	n android										
				SCHEME OI	STU	DY							
S. No.		Learning Content		Teaching –Learnin Method	g		ption of Process	f T-L	Teac Hrs		Pract. /Tut Hrs.	LR: Requi	Romari
1	Create A	ction Bar, Navigation tal	bs, drop-down	Interactive lab classroom teaching,	-	eacher emonst	will rate ma	ior	NII		12	Handou chalk	its,

provide quiz,

assignment etc.,

teacher will conduct remedial and tutorials.

charts,

video film.

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Lab Observation/Assignment	Laboratory observation / Work and viva voce	10	Observation schedule/check-list /rating scales /rubrics	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties & students can be referring official site (https://developer.android.com/docs) tutorial as learning contents.

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME		anch	Code	Course Code		CO Code	LO Code	Format No. 4
				0	4			3	8	
Course Name	Android Application	Android Application Development								
CO Description	Develop graphics, fra	agment activities & adapters								
LO Description	O Description Illustrate graphics and fragments in applications									

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	 Graphics Resources: ✓ Images: bitmap images, JPEG & GIF ✓ Transitions, Text Animation Fragments lifecycle & activities(adding, removing & replacing) 	Interactive classroom teaching, demonstration , quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	6	NIL	Handouts, chalk board, PPT, text book, charts, video film.	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculties & Students can be refer site tutorial https://developer.android.com/guide/components/activities/intro-activities

RG	PV (Diplor	na Wing) Bhopal	SCHEME FOR LEAR	NING	Branch	Code	e C	ourse Code	CO Code	LO Code	Format No. 4
110	- (2-pio-	(ing) Ziiopiii	OUTCOME	OUTCOME		4	4		3	9	
Course	Name	Android Application Dev	elopment				'	<u>'</u>	'		1
CO Description Develop graphics, fragment a			ent activities & adapter	S							
LO Des	cription	Outline adapters in andro	oid apps								
			SCH	EME O	F STUDY						
S. No.	Learning Content		Teaching – Learning Method	Desci	ription of T-L Process		Teach Hrs.	Pract. /Tut Hrs.	LRs R	equired	Remarks
1		Overview, Types (base ada pter, list-array adapter, s pter)	• ' •	the cor provide student conduct quiz/tu	er will explaintents and e handouts to ts. Teacher vert assignment to malts practice the	vill ts/	6	NIL	Handouts board, PF book, cha film.	T, text	0

knowledge.

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

https://developer.android.com/reference/android/widget/Adapter

RG	SPV (Diplo	ma Wing) Bhopal	EME FOR LEARNI	NG B	Branch Code		Cou	urse Code	CO Code	LO Code	Format No. 4
		9)	OUTCOME	I	0	4			3	10	
Course	Name	Android Application Develop	ment	<u> </u>	<u>'</u>				<u>'</u>		
CO Description Develop graphics, fragment			ctivities & adapters								
LO Des	LO Description										
		,	SCHE	ME OF STU	U DY						
S. No.		Learning Content	Teaching — Learning Method	Descripti Pro	on of T	-L	Teach Hrs.	Pract. /Tut Hrs.	LRs Ro	equired	Remarks
1	• Implementing onClick listener and Key Events: onKeyUp & onKeyDown by		1	Teacher will demonstrate	_		NIL	12	Handouts, board, PP	T, text	

components inside the

will practice, provide

quiz, assignment etc.,

teacher will conduct remedial and tutorials.

lab to students, students

book, charts, video

film.

teaching,

quiz,

tutorial

demonstration,

assignments,

using UI Events like event call-back

• Event handling, onclick events

methods,

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Laboratory test by observation	Laboratory observation / work and viva voce	10	Observation schedule/check-list /rating scales /rubrics	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculty visit android studio official site for documentation https://developer.android.com/jetpack/guide/ui-layer/events

RG	RCPV (Dinloma Wing) Rhonal			FOR LEARNING		Branch Code Co			Course Code		CO Code	LO Code	Format No. 4
110	2 , (2 .p. 10	, , g , 2•pu.	OUT	OUTCOME		0	4				4	11	1011111011
Course	Name	Android Application	n Development							'		'	
CO Des	O Description Illustrate intents , notification serv												
LO Des	LO Description Explain android intent & intent filters												
				SCHEME OF	STU	DY							
S. No.		Learning Conte	n#	Teaching –		Descri	ption of	T-L	Teach	Prac		LRs	, Remark
5. 110.		Lear ming Conte	III	Learning Method		Process			Hrs.	/Tut H	rs.	Require	ed Kemark
Android intent: Introduction, types		Interactive	Te	Teacher will explain		ain	6	NIL]	Handouts,			
	• Intent filters		classroom teaching	, th	the contents and					(chalk boar	rd,	
	• Intents activities: sending intents, broadcast			demonstration,	provide handouts to]	PPT, text		
	• Intents activities, sending intents, broadcast			ania aggionmenta	students Teachen will					1	haalrahar		

quiz, assignments,

tutorial

intent

students. Teacher will

conduct assignments/

quiz/tutorial to make students practice their

knowledge.

book, charts,

video film.

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculty visit android studio official site for documentation https://developer.android.com/guide/components/intents-filters

RG	SPV (Diplo	oma Wing) Bhopal		CHEME FOR LEARNING OUTCOME		Branch Code Co		Course Code		CO Code	LO Code	Format No. 4
	` .	<i>87</i>	OUTCO			0	4			4	12	
Course	Name	Android Application	Development									
CO Des	scription	Illustrate intents, no	tification services									
LO Des	cription	I notifications										
				SCHEME O	F STU	DY						
S. No.		Learning Con	tent	Teaching Learning M	_		iption of T Process		ach rs.	Pract. /Tut Hrs.	LRs Requi	Kemarl
 Services: Overview , Types (foreground, background, bound) Life Cycle of Android Services Basics of notification (Push Notification), Create & Send Notification 		Interactive classroom teaching, demonstratio quiz, assignment tutorial	_	Teacher will explain the contents and provide handouts to students. Teacher will			6	NIL	Handou chalk board, PPT, ter book, charts, video fi	xt		

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Pen paper test + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Faculty visit android studio official site for documentation
For android services https://developer.android.com/guide/components/services
for android notification https://developer.android.com/guide/topics/ui/notifiers/notifications

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING	Branch Code				Course Code		CO Code	LO Code	Format No. 4	
- · (P	8) - I	OUTCOME	I		0	4				5	13	
Course Name	Android Application	ndroid Application Development										
CO Description	Build android appl	ications with database										
LO Description	Classify Android da	Classify Android database										
	<u>'</u>	SCHEME O	F STU	JDY	,							

S. No.	Learning Content	Teaching — Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	 Android database ✓ Introduction, ✓ SQLite Database ✓ Content Providers Android database design consideration ✓ Opening & Creating database ✓ Querying a database: adding, updating & deletion 	Interactive classroom teaching, demonstration, quiz, assignments, tutorial	Teacher will explain the contents and provide handouts to students. Teacher will conduct assignments/ quiz/tutorial to make students practice their knowledge.	6	NIL	Handouts, chalk board, PPT, text book, charts, video film.	

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End semester theory examination	Pen Paper Test	10	Question paper + rating scale	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

https://developer.android.com/reference/android/database/package-summary

RGPV (Diploma Wing) Bhopal Course Name Android Application CO Description Build android application		SCHEME FOR LEARNING OUTCOME		Branch Code			Course	Code	CO Code		Format No. 4	
		1 0 4 5						14	4			
		Build android application	indroid applications with database									
LO Description Explain working of C			Content Providers									
				SCHEME O	F STU	DY						
S. No.	Le	arning Content	Teaching – Learning Method	Descriptio Proc		L	Teach Hrs.	Pract. /Tut Hrs.	LR	s Require	d	Remarks
1	conteCasemobil		Interactive classroom teaching, demonstration, quiz, assignments, tutorial	Teacher will the contents provide hand students. Tea conduct assis quiz/tutorial students prac- knowledge.	and louts to acher w gnment to mak	rill cs/	6	NIL	board	outs, chalk l, PPT, tex charts, vio	t	

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Mid semester theory examination	Pen Paper Test /Quiz / Short Answer	10	Question paper + rating scale	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

https://developer.android.com/guide/topics/providers/content-provider-basics

Available mobile application testing tool like appium usage can be demonstrate to test app developed by student

RGPV (Diploma Wing) Bhopal			SCHEME FOR LEARNING OUTCOME		Branch Code		Course Code		LO Code	Format No. 4	
- (-----------------------------------					OUTC	0	4		5	15	
Course	Name	Android Applica	tion Development								
CO Des	cription	Build android ap	plications with databa	se							
LO Des	cription	Build address bo	ok app								
				SCHEME C	F STU	DY					
S. No.	S. No. Learning Content Tea		Teaching –Learning Method	Description of T-L Process		Teach Hrs.	Pract. /Tut Hrs.	LRs Required			Remarks
1	using cAdding databa	ng & picking contactontent provider g data to conse ag contact details	classroom	Teacher will demonstrate add book in android studio inside the to students, studies will practice, propredefine problemodels their solution etc., teacher will conduct remeditutorials.	e lab dents covide ems, lutions	NIL	12	Handouts, PPT, development IDE			
				SCHEME OF A	SSESS	MENT					
S. No.	Method	d of Assessment	Description of A	Description of Assessment		imum arks		Resources Required			External / Internal
1	Lab Obser	vation/Assignment		Lab Observation/work and Assignment			Observation schedule/check-list /rat scales /rubrics			/rating	Internal
	1		ADDITIONAL INST	RUCTIONS FO	R THE	HOD/ I	FACULTY (IF ANY)			1
			https://developer.an	droid.com/trainir	ıg/conta	cts-provi	der/retrieve-	names			