

॥ विद्यया समाजोत्कर्षे: ॥																			
			F٨	ACULT	'Y OF	CON	MPUT	ER	APF	PLICA	τιο	NS							
			TE	ACHI	NG A	ND E	EXAN	1IN/	ATIC	ON SC	HE	ME							
Programme	MASTER OF SCIENT INFORMATION TECHNOLOGY (MC APPLICATION)	MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (MOBILE APPLICATION)					puter A	pplic	ation										
Semester III																			
Effective from Acad	lemic Year	201	9-20	Effec	tive for	⁻ the b	atch Ad	Imitte	ed in					Jun	e 2018	5			
					Теа	aching	sche	me					Ex	amina	ation s	cheme	e (Mai	rks)	
Subject Code	Subject Name			Cr	edit				ŀ	Hours (p	er w	eek)			Theor	y	Practical		
		Lectur		e(DT) Pra		ctical(Lab.)		Lecture(DT)		Pra	ractical(Lab.)		CE	SEE	Total	CE	SEE	Total	
		L	TU	Total	Р	TW	Total	L	TU	Total	Р	TW	Total						
P53A1MP-II	MOBILE PROGRAMMING- II	2	-	2	2	-	2	2	-	2	4	0	4	40	60	100	20	30	50
P53A2VAS	VALUE ADDED SERVICES	2	-	2	2	-	2	2	-	2	4	0	4	40	60	100	20	30	50
P53A3EL4	USER INTERFACE DESIGN & LAB	2	-	2	2	-	2	2	-	2	4	-	4	40	60	100	20	30	50
P53A4EL5	I-PHONE APPLICATION DEVELOPMENT & LAB-II	2	-	2	2	-	2	2	-	2	4	-	4	40	60	100	20	30	50
P53A5SEO	SEARCH ENGINE	2	-	2	2	-	2	2	-	2	4	-	4	40	60	100	20	30	50
P53A6IP1	INDUSTRIAL PROJECT -1	-	-	-	2		2	-		-	4	-	4	-	-		40	60	100
	Total	10	00	10	12	-	12	10	-	10	24	-	24	200	300	500	140	210	350



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			F	ACL	JLTY OF	COM	PUTER AP	PLICATION	IS		
Progra	imme		M.Sc IT	(MOBI	LE APPLICAT	ION)	Branch/Spec.	Computer Ap	plication		
Semes	ter		Ш				Version	1.0.0.0			
Effecti	ve fron	n Acac	lemic Ye	ar	2019-20		Effective for	the batch Adm	itted in	June	2018
Subjec	t code	•	P53A1	MPII	Subject N	lame	Mobile Progr	ramming – II			
Teachi	ing sch	eme					Examination	scheme (Mark	s)		
(Per w	eek)	Lectu	ure(DT)	Prac	tical(Lab.)	Total		CE	SEE	Tot	al
		L	TU	Р	TW						
Credit		2	-	2	-	4	Theory	40	60	10	0
Hours		2	-	4	-	6	Practical	20	30	50)
Pre-re	quisite	s:									
Basic knowledge of High Level Programming Language and Object Oriented Programming Concepts using java										g java.	
Learni	ng Out	come:									
•	Und	lerstar	nding ab	out mo	obile applic	ation de	velopment teo	chnology			
•	Mol	bile Ap	plicatio	n Deve	lopment fo	r the Ar	ndroid platforn	n using Android	l Studio		
Theory	y syllab	us									
Unit						C	ontent				Hrs
1	Menu	i and A	Advance	Layou	ıts						06
	•	Me	nu [Opti	ion M	enu, Conte	xt Menu	J]				
	•	Lay	outs (Lis	st view	, Grid Layo	out, Caro	d Layout, Recy	cler View, Dra	wer Layout)		
	•	Тур	es of Ac	lapter	. (Array an	d Custo	m Adapter)				
	•	 Use of Fragments 									
	•	Floa	ating Bu	tton							
2	Acces	sing A	ndroid H	Hardw	are						09
	•	Me	dia API								
	•	Can	nera								
	•	Blue	etooth								
	•	Nat	ive Andr	oid Co	ontent Provi	iders					
3	Geoco	oding	and Loca	ation S	ervices						08
	•	Ger	nerating	GEO K	ey						
	•	Loc	ation Ba	sed Se	rvices						
	•	Find	ding you	r Locat	tion						
	•	Intr	oduction	n to M	ap kit						
4	Other	⁻ UI Es	sentials	and P	eer-To-Peer	Comm	unication				07
	Animation										
	•	Rat	ing Bar &	& Seek	Bar						
	•	And	lroid Tel	ephon	y API						
	•	SM	S Applica	ation							
	•	Call	ing Appl	icatior	า						
Practic	cal cont	tent									
List of	progra	ms sp	ecify by	subjec	t teacher b	ased on	above mentio	n topics.			
Text B	ooks										

1	LaurenDarceyandShaneConder, "Android WirelessApplicationDevelopment", PearsonEducation								
Refe	rence Books								
1	RetoMeier,"ProfessionalAndroid2ApplicationDevelopment",WileyIndiaPvt Ltd(2011)								
2	Teach.Yourself.Android.Application.Development.in.24.Hours.2nd.Edition.								
	Question Paper Scheme:								
	Note for Examiner								
	Q-1 must be common from any topics from syllabus.								
	Q-2 and onwards must be from specific topics and internal choice or option can be given								
	Paper Structure								
	Q-1 (AttemptanySix Out of Eight: each question must be 5 marks)30								
	Questions mustbecoveredallpossiblesection.								
	Q-2 (MustbeFromtopics: Menu and Advance Layouts:(10 marks))								
	Q-3 (MustbeFromtopics: Accessing Android Hardware: (5 marks))								
	Q-4 (MustbeFromtopics: Geocoding and Location Services: (5 marks))								
	Q-5 (MustbeFromtopics: Other UI Essentials and Peer-To-Peer Communication: (10 marks))								

Note: Version 1.0.0.1 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)

L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work

CE= Continuous Evaluation, SEE= Semester End Examination



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				FAC	JLTY OF		IPUTER AF	PLICATIO	N			
Progra	mme		M.Sc IT	(MOB	LE APPLICAT	ION)	Branch/Spec.	Computer Ap	plication			
Semes	ter						Version	1.0.0.0				
Effecti	ve fror	n Acad	Jemic Ye	ar	2019-20		Effective for	the batch Adm	itted in	June	2018	
Subjec	t code	2	P53A2\	VAS	Subject N	lame	Value Added Services					
Teachi	ing sch	eme					Examination	scheme (Mark	s)			
(Per w	eek)	Lectu	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total		
		L	TU	Р	TW							
Credit		2	-	2		4	Theory	40	60	100		
Hours		2	-	4		6	Practical	20	30	50		
Pre-re	quisite	s:										
Basic knowledge of the Core Java Programming.												
Learning Outcome:												
At the	end of	f this p	baper, st	udent	s should be	able to	To make diffe	erent types of s	mall android a	applicatio	on and	
overview of value added services.												
Theory	y syllab	us									I	
Unit						C	ontent				Hrs	
1	Mobile Service Architecture and Paradigms										8	
	Application Paradigms for Mobile Services											
	•	Мо	des of N	1obile	Interaction							
	•	Ma	pping th	e inter	action to th	າe Netw	ork Model					
	•	Ope	erator Ch	າallen	ges							
	•	We	b2.0 Cha	allenge	es.							
2	Short	Mess	age Serv	vice							8	
	•	Ser	vice Des	criptio	n							
	•	SM	S Use Ca	ses								
	•	GSN	√ Netwc	ork Arc	hitecture							
	•	Pro	tocol Lay	yers								
	•	SM	S Report	Delive	ery							
	•	Stat	tus Repo	ort								
3	Multi	media	I Messag	ging Se	rvice						7	
	•	ΜN	1S Succe	ss Ena	blers							
	•	Cor	nmercial	l Availa	ability of M	MS						
	•	Val	ue Propo	osition	s of MMS							
	MMS Architecture											
	MMS Features											
	Addressing Modes											
4	Voice Applications 7										7	
	IP Based Converged Networks											
	•	Vol	P Techno	ology								
	•	Voi	ce XML									
	•	Voi	ce XML /	٩rchite	ecture							

	Voice XML Features
Pract	ical content
List o	f programs on the above mentioned topics as per decided by subject faculty
Text	Books
1	Implementing Value-Added Telecom Services by Johan Zuidweg
Refer	rence Books
1	Value-Added Services for Next Generation Networks (Informa Telecoms & Media) by Van de Velde, Thierry
Раре	r Structure
	 Q-1 (Attempt any SIX Out of EIGHT: each question must be 5 marks) 30 Questions must be covered all possible section. Q-2 (Must be From topics : Mobile Service Architecture and Paradigms (8 marks)) Q-3 (Must be From topics : Short Message Service (7 marks)) Q-4 (Must be From topics : Multimedia Messaging Service (8 marks)) Q-5 (Must be From topics : Voice Applications (7 marks))



u f	वद्यया समाजोत्कर्ष: ॥										
FACULTY OF COMPUTER APPLICATION											
Progra	amme		M.Sc IT	(MOE	BILE APPLIC	ATION)	Branch/Spec	Computer Ap	plication		
Semes	ster		111				Version	1.0.0.0			
Effecti	ve fror	n Acad	demic Ye	ar	2019-20		Effective fo	r the batch Ad	mitted in	June	2018
Subjec	t code	;	P53A3	EL4	Subject N	Name	Elective-IV-	User Interface	Design and La	ab	
Teachi	ing sch	eme	•				Examinatio	n scheme (Mai	rks)		
(Per w	eek)	Lecti	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit		2	-	2		4	Theory	40	60	100	
Hours		2	-	4		6	Practical	20	30	50	
Pre-re	quisite	s:									
Basic knowledge of the Core Java Programming.											
Learning Outcome:											
At the	At the end of this paper, students should be able to To make different types of small android application a										
overview of value added services.											
Theory syllabus											
Unit						Co	ntent				Hrs
1	Mobi	le App	Dication	S							/
	•		bilizing A	Арриса	tions						
	Ine Components of Mobile Applications Selecting Application Technologies										
	•	Sele	ecting Ap	oplicati	on Techno	logies					
	•	Inp		lity							
	•	Dis	piay ivio tailouti oa		- da						
2	• Mohi	DIS	tribution	ivietno	bas						0
2		The	Carry P	rinciple)C						0
			r Conte	vt	:5						
		Dev	vice Proli	 iferatio	n						
		Tar	geted De	sign							
	•	Plat	tform Pr	oviders							
3	Mobi		Design P	atterns	·						8
	•	UI	Patterns								
	•	Uni	versal Pa	atterns							
	•	Cor	porate F	attern	S						
	•	Scr	een Desi	gn							
	Menus										
	Navigations										
4	UI Ap	plicat	ion Fran	nework	S						7
	•	And	droid Inp	ut Libr	ary Frame	work					
	•	Syn	nbian Inj	out Libr	ary Frame	work					
	•	J2N	/IE Input	Library	Framewo	rk					

Pract	ical content								
List o	List of programs on the above mentioned topics as per decided by subject faculty								
Text I	Books								
1	Handbook of Research on User Interface Design and Evaluation for Mobile Technology (2 Volumes),								
	Joanna Landsmen								
Refer	ence Books								
1	"The Essential Guide to user Interface Design: An Introduction to GUI Design Principles and Techniques"								
	by Wilbert O Galitz.								
2	Handbook of Research on User Interface Design and Evaluation for Mobile Technology, Joanna								
	Lumsden.								
Раре	r Structure								
	Q-1 (Attempt any SIX Out of EIGHT: each question must be 5 marks) 30 Questions must be covered all possible section.								
	Q-2 (Must be From topics : Mobile Applications (8 marks))								
	Q-3 (Must be From topics : Mobilize(7 marks))								
	Q-4 (Must be From topics : Mobile UI Design Patterns(8 marks))								
	Q-5 (Must be From topics : UI Application Frameworks(7 marks))								



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FACULTY OF COMPUTER APPLICATION											
Progra	imme		M.Sc IT	. (MOI	3ILE APPLIC	ATION)	Branch/Sp ec.	Computer Ap	plications		
Semes	ter		III				Version	1.0.0.0			
Effecti	ve fron	n Acac	lemic Ye	ar	2019-20		Effective f	or the batch A	dmitted in	June	2018
Subjec	t code	2	P53A4E	EL5	Subject N	Name	Elective V:	IPhone Applic	ation Develop	ment & L	ab – II
Teachi	ing sch	eme					Examinati	on scheme (Ma	arks)		
(Per w	eek)	Lectu	ıre(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit		2	-	2	-	4	Theory	40	60	100	
Hours		2	-	4	-	6	Practical	20	30	50	
Pre-re	quisite	s:									
Stude	nt mus	t have	e knowl	edge o	of Program	ning langu	age like C,	VB, C# and c	oncepts of O	OPS.	
Learni	ng Out	come:									
Stude	nt can	create	e IPhone	e base	d mobile a	pplication	n. Student c	an also uploa	d their apps o	on Apple	:
Store.											
Theory	heory syllabus										
Unit	it Content										
1	Introduction to IOS Application Programing										04
	Introd	ductio	n to Obje	ective	C and Swift						
	The D	evelo	pment T	ools, t	ne Learning	g Approach	n and the Ap	p Idea			
	Your First Taste of Swift with Playgrounds										
	Introd	luctio	n to Auto	o Layo	ut						
	Desig	ning U	I Using S	Stack V	/iews						
2	Intro	ductio	n to Pro	totypi	ng	, , ,		1.50			06
	Creat	ing a S	imple la	able-ba	ased App, W	/orking wit	th Static Tab	le Views,			
	Custo	mize I	able Vie	ews Us	ing Prototy	pe Cell,					
	Intera	acting '	with Tab	le vie	N, Edition C	of row,					
2			Jeletion,	, Swipe	e for Action	, ACTIVITY C	ontroller ar				04
5	Viow	Contro	llon, Seg	ue Jutiot	and Action	c Using ala	ort Viow				04
	Introd	luction	n to Nav	igation	anu Action:	s, Using ale	o view,				
	Ohier	t Orio	nted Prc	oramr	ning Proje	ct Organiz:	= ation and Co	de Documenta	tion		
	Detai	l View	Fnhance	ement	ning, i rojev	et organize					
4	Navig	ation.	animat	ions a	nd MAP:						05
	Navig	ation (on multi	ple pa	ges. Naviga	ition Bar C	ustomizatio	n			00
	Exten	sions	and Dvn	amic T	vpe						
	Work	ing wit	th Maps	. Devic	e Rotation						
	Basic Animations										
5	Explo	re Inte	erface w	ith Ing	out and scre	een					05
	Using	keybo	bard, cus	tomizi	ng the type	es of input,	, set keypad	with number p	bad,		
	Explo	ring Ta	ab Bars a	and Sto	oryboard Re	eferences					
	Explo	ring Cl	oudKit,	Keycha	ain						

6	Working with DATABASE	06
	Using SQLite, Creating and Opening Database, Creating Table, Bind Variables, Retrieving	
	Records.	
Pract	ical content	
List o	f programs specified by the subject teacher based on above mentioned topics	
Text	Books	
1	Beginning IOS Programing with Swift –by AppCoda	
Refer	rence Books	
1	Beginning Swift Programming (WROX) by Wei-Meng Lee	
2	The Swift Developer's Cookbook by Packt Publishing Limited	
3	https://www.appcoda.com/learnswift/	
	Note for Examiner	
	Q-1 must be common from any topics from syllabus.	
	Q-2 and onwards must be from specific topics and internal choice or option can be given	
	Paper Structure	
	Q-1 (Attempt any Six Out of Eight: each question must be 5 marks) 30	
	Questions must be covered all possible section.	
	Q-2 (Must be From topics: Introduction to IOS Application Programingand Introductio	n to
	0-3 (Must be From tonics: Outlets Action Segue(6marks))	
	O-4 (Must be From topics: Navigation, animations and MAP (6 marks))	
	Q-5 (Must be From topics:Explore Interface with Input and screen (4 marks))	
	Q-6 (Must be From topics:Working with DATABASE (8 marks))	

	Ganpa Jnivers	t ity	GANPAT UNIVERSITY									
				FACI	JLTY OF		IPUTER AI	PPLICATIO	N			
Progra	mme		M.Sc IT	(MOBI	LE APPLICAT	FION)	Branch/Spec.	Computer A	pplication			
Semes	ter		111				Version	1.0.0.0				
Effecti	ve fron	n Aca	demic Ye	ar	2019-20		Effective for the batch Admitted in June 20					
Subjec	t code		P53A55	SEO	Subject N	Name	SEARCH ENG	SINE OPTIMIZA	TION			
Teachi	ing sch	eme					Examination	scheme (Marl	(s)			
(Per w	eek)	Lect	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total		
		L	TU	Р	TW							
Credit		2	-	2		4	Theory	40	60	100		
Hours		2	-	4		6	Practical	20	30	50		
Pre-re	quisite	s:										
Basic k	ic Knowledge of World Wide Web. Difference between Portal and Search Engines.											
Learni	_earning Outcome:											
Gettin	g the k	nowle	edge of S	EO.								
Theory	y syllab	us									T	
Unit	Unit Content H										Hrs	
1	Basics of SEO 9									9		
		Wh	at is SEC)? Ту	pes of SEC) Techni	iques <i>,</i> Black h	at techniques	, White Hat			
	techniques, How Search Engine works? Market Research, Keyword Research											
		and	d Analysi	is, Key	word oppo	ortunity,	, Competitors	Website Ana	ysis, SWOT An	nalysis		
		of ۱	<i>Nebsite</i>	, How	to Choose	Best Ke	ywords, Tools	s available for	Keyword Rese	earch		
2	Webs	ite De	esign SEC) Guid	elines and	On-page	e Optimization	ו			6	
		Co	ntent Re	search	,Content C	Guidelin	es, Content O	ptimization, 1	Design &	Layout,		
		XN	IL Siten	nap / U	RL List S	itemap,						
		Ine	Page I	itle, M	eta Descri	ptions &		ords, Headings	, Bold Text, Do	omain		
		Na	mes & S Islin a Th	uggest	ions, Canc	nical la	ig, ivieta Tags,	, Images and A	Nit Text, Intern	ai Link		
		Bui	iaing, ir	ie Site	map, invis		t, Server and	Hosting Check	, Robots Meta	a Tag,		
2	04 0		orway P	ages, 3	OT Realife	cts, 404	Error, Duplic	ate content			7	
3	OTT-Pa	age U	ptimizat	ion	م به با مینام ب		lalian in Datai		h waita a ta w	Casial	/	
		Pag	ge Rank,	LINK P	opularity,			I, Directory St	DITIISSION,	SOCIAI		
		DOG	JKIIIdi K		SIUII, DIUg	ion to S	Sion, Articles	LINKS EXCITATE	bmissions Dro	LITIKITIg,		
		POS		-orum:	s, Submiss	IUII LU S	uilding Comp	ASS FEEDS SU	omissions, Pre	:55		
4	Analy	Rei tice	ease sui	omissie ctudy	JIIS, FOI UII		unung, comp		aiysis		0	
4	Analy			Jutics	Installing	Google	Applytics Ho	wto Study Co	odla Applytics		0	
			ogie Alle	a Barc	& Figures	How	naiyuus, HU	w to study GO	O Advancod	,		
		Ro	orting	5 Dais Wahm	aster Cent	tral & Pi	ng/Vahoo Or	s can neip SE	or Wohsito A	nalveie		
		usi	ng vario	us SFO	Tools ava	ilable. T	ools for SFO		Ci, website A			

Pract	ical content
List o	of programs on the above mentioned topics as per decided by subject faculty
Text	Books
1	The Art of SEO: Mastering Search Engine Optimization by Eric Enge, Stephan Spencer, Rand Fishkin,
	Jessie Stricchiola, O'Reilly Media, Year: 2009, 0596518862,9780596518868
Refe	rence Books
1	Step By Step Guide to Seo Hardcover – 2018, by Upendra Rana
2	SEO 2019: Learn search engine optimization with smart internet marketing strategies, by Adam
	Clarke
Раре	er Structure
	 Q-1 (Attempt any SIX Out of EIGHT: each question must be 5 marks) 30 Questions must be covered all possible section. Q-2 (Must be From topics : Basics of SEO (8 marks)) Q-3 (Must be From topics : Website Design SEO Guidelines and On-page Optimization (7 marks)) Q-4 (Must be From topics : Off-Page Optimization (8 marks)) Q-5 (Must be From topics : Analytics and case study (7 marks))



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		•		FACL	JLTY OF	COM	IPUTER AF	PLICATIO	N		
Progra	amme		M.Sc IT	(MOBI	LE APPLICAT	ION)	Branch/Spec.	Computer Ap	plication		
Semes	ster						Version	1.0.0.0			
Effecti	ive fron	n Acac	lemic Ye	ar	2019-20		Effective for	the batch Adm	itted in	June	2018
Subjec	ct code		P53A6I	P1	Subject N	lame	INDUSTRIAL	PROJECT -1			
Teachi	ing sch	eme					Examination	scheme (Mark	s)		
(Per w	veek)	Lectu	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit		-	-	2		2	Theory	-	-	-	
Hours		-	-	4		4	Practical	40	60	100	
Pre-re	quisite	s:									
Softwa	are De	velop	ment N	1odels	and cond	cepts, C	OPs, Basic [DBMS concep	ts, knowledge	e of sof	tware
develo	pment	life cy	cle, Tes	ting fu	ndamental	s.iphone	android,				
Learni	ng Out	come:									
•	Unde	rstand	ding of h	ow sys	tem is ana	ysed an	d implemente	d using standa	rd techniques.		
•	Desig	n and	Implem	entatio	on of propo	sed syst	em				
•	Testi	ng the	system								
•	Deplo	bymen	nt of the	system	1						
Theory	y syllab	us									l
Unit						C	ontent				Hrs
1	Rules						6		1		8
	Stude	nts ar	e require	ed to d	evelop ent	ire new	software syste	em or to enhan	ce/modify		
	functi	onalit	ies of ex	isting s	oftware or	to prov	ide customizat	tion based on e	existing		
	techn	ology/	framew	ork to	fulfil specif	ic requi	rements.				
	Tho d	uratia	n of tho	nroioc	tic In hour	0.0000	tor Students	can davalan th	oir project		
	indivi	dually	orinag	roup o	f not more	than 2	students Grou	un size can be i	en project	prior	
	annro	wal of	bead of	institu	tion	tildil Z :	students. Grou	ip size call be i	nciedseu with	μισι	
	appio		neau oi	mstitu							
	The p	assing	standar	d is 40	% in intern	al and e	xternal examir	nation jointly.			
	The d	etail s	tudy of a	any ent	erprise ap	olication	or any major	IT infrastructu	re setup can al	so be	
	ассер	ted as	a projec	ct work	. The proje	ect can b	e developed in	n any language	or platform b	ut it is	
	requi	ed to	get appi	roved k	by the head	l of the i	nstitution. For	the purpose c	of approval, Stu	udents	
	have	to sub	mit thei	r proje	ct titles and	d propos	als with the na	ame of interna	l and external	guides	
	to the	Head	of Instit	ution I	n case, if th	he stude	nt proposal is	rejected, the r	evised proposi	al in the	
	same	or oth	ier area	is requ	ired to sub	mit and	get it sanction	ied. Failing to d	to this, his/her	term	
	will fi	ງເມຍູ	granted.								
	The st	udent	s have t	o reno	rt to the in	ternal ø	lide for at leas	st 4 times durir	ng the project I	ife	
	span.	Stude	nts are r	equire	d to submi	t their n	resentation in	soft copy as n	er format to as	signed	
	interr	al gui	de at lea	st befo	ore 4 days o	of intern	al presentatio	n schedule.			
		0									

	The external examiners appointed by the University will give the external marks on the basis of the heads like Presentation, Demonstration, Viva Voce, and Documentation etc. The distribution of marks to different heads may be decided at the time of evaluation of the project but it is expected to have the same distribution.
	The Internal Guide or Head of the Institution will give the internal marks. These marks may be
	given on the bases of regular reporting of the student to the internal guide.
Practical content	
List of programs on the above mentioned topics as per decided by subject faculty	
Text Books	
1	Systems Analysis and Design, by <u>Brijendra Singh</u> , Publisher: New Age International Private Limited; First edition (1 January 2016)
Reference Books	
1	UML Modelling for Business Analysts: With Illustrated Examples (BusinessAnalystSeries Book
	102)
2	Fundamentals of Object-Oriented Design in UML, by PAGE-JONES. Publisher: Pearson Education; 1
	edition
3	Build iOS Database Apps with Swift and SQLite, by Kevin Languedoc, Apress; 1st ed. edition