University of Moratuwa Sri Lanka

## **BACHELOR OF BUSINESS SCIENCE HONOURS DEGREE** IN THE FACULTY OF BUSINESS

MODULE DESCRIPTORS 2021

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## MODULES OFFERED BY THE DEPARTMENT OF DECISION

## **S**CIENCES

LO-1 LO-2 LO-3	im: This m problem Outcomes oleting this mo Apply fundam Analyze and e Apply rudime business scena	A Lectures 2 nodule aims to pro ns. bdule, the students a nental probabilistic evaluate data using ntary statistical tec	should be abl techniques to fundamental	e to:	C dge of	E prob.	<b>O</b> abilit	<b>CA</b> 50	WE 50 tatistics for a	Prerequisites None solving business
Module Ai Learning ( After comp LO-1 LO-2 LO-2	im: This m problem Outcomes oleting this mo Apply fundam Analyze and e Apply rudime business scena	A 2 nodule aims to proms.	Tutorial s 2 vide a basic should be abl techniques to fundamental	stud y 6 knowled e to:	lge of	prob	abilit	50	50	-
Learning ( After comp LO-1 4 LO-2 4 LO-3 1	Imiliant     problem       Outcomes     Imiliant       oleting this model     Imiliant       Apply fundam     Imiliant       Analyze and e     Imiliant       Apply rudime     Imiliant       business scenario     Imiliant	odule aims to pro ns. odule, the students nental probabilistic evaluate data using ntary statistical tec	vide a basic should be abl techniques to fundamental	knowled e to:	lge of	prob	abilit			solving business
After comp LO-1 4 LO-2 4 LO-3	oleting this mo Apply fundam Analyze and e Apply rudime business scena	nental probabilistic evaluate data using ntary statistical tec	techniques to fundamental							
LO-1 LO-2 LO-3	Apply fundam Analyze and e Apply rudime business scena	nental probabilistic evaluate data using ntary statistical tec	techniques to fundamental							
LO-2 LO-3	Analyze and e Apply rudime business scena	evaluate data using ntary statistical tech	fundamental	quantif						
LO-3	Apply rudime business scena	ntary statistical tec			y the u	incerta	ainty	of a ran	dom experin	ient
LO-3	business scena			descript	ive sta	tistica	l tecł	nniques		
		arios and problems	hniques such	as samp	ling, e	stima	tion a	ind hype	othesis testing	g in analyzing
LO-4	Make use of s	tatistical software (	R, Python) fo	or statist	ical da	ta ana	lysis			
Syllabus C	Dutline									Learning Outcomes
1	Counting and	o set theory and bas l sets, basics of c obability, Bayes' 1	combinatoric.	•		ations	bas	tics of p	probability,	LO-1
2	Introduction	bles and probabilit to random variab ables, moment g	les, discrete	and co	ntinuo					LO-1
3 2	Types of dat	atistics and explora a, organizing and rrelation analysis	-	-		res of	cen	tral ten	dency and	LO-2, LO-4
4		ributions [6 hrs] hods, sampling dis	tribution of	the mear	n and	propo	rtion	, the Ce	entral Limit	LO-1, LO-3
		terval estimation [6 terval estimation for	-	nd prop	ortion,	deter	minir	ıg samp	le size	LO-3, LO-4
6 i		of hypothesis testi mative hypothesis, sts	<b>U</b> -	e, errors	in test	ing, p	ower	of a sta	tistical test,	LO-1, LO-3, LO-4
Assessmen	nts						1			
Assessmen	nt							We	ight	Learning outcomes
Continuou		In-class test - 01						25% [1	1.5 hrs]	LO-1, LO-2, LO-3
Assessmen	nts (CA)	Lab practical test	- 01					25% []	1.5 hrs]	LO-2, LO-3, LO-4
Written ex	xamination (V	WE)						50% [	[3 hrs]	LO-1, LO-2, LO-3
References	s									

Module	Code	DA1321	Me	odule Title				P	rinciples o	of Program	ming
Credits		3	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisite
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 6				<b>CA</b> 50	<b>WE</b> 50	None
Module	Aim:	The aim of problem-sol	this course is	ų	-	confic	lence	in th			l programming an
Learnir	ng Outco	omes									
After co	mpleting	this module	, the students	should be abl	e to:						
LO-1	Analy	ze simple co	mputing probl	ems							
LO-2	Apply	procedural s	tatements — a	assignments,	conditio	nal st	atem	ents, l	oops, met	hod calls a	nd arrays
LO-3		op small prog ements	grams using a	selected prog	grammin	g lang	guage	e (e.g.	Python) t	nat meet th	e expressed
Syllabu	s Outlin	e									Learning Outcomes
1			mming [6hrs] uages, proble		flow cha	erts, p	seud	o code	25		LO-1
2		• •	mming [10 hrs bles, operator.	-							LO-1, LO-2
3	0	e	ctures [12 hrs] Procedures a		7						LO-2, LO-3
4		-	s in Programn lgorithms for	<b>e</b>	ing						LO-3
Assessn	nents										
Assessn	nent								Weig	ght	Learning outcomes
Continu	ious	In-c	lass programn	ning test - 01					20% [2	2 hrs]	LO-1, LO-2
	ients (Ca	A) In-c	lass programn	ning test - 02					30% [2	2 hrs]	LO-2, LO-3
Assessm									50% [3		LO-1, LO-2

Module	Code	DA1311	M	odule Title				C	Computing	g Fundamer	ntals
Credits		3	Н	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	None
			3	-	7				50	50	
Module	Aim:	This course	aims to introc	luce the fund	amental	princ	iples	on wh	ich comp	uter system	is are based on.
	ng Outcor										
After co			, the students								
LO-1	Descril	be how a pro	ogram is execu	ited in a com	puter						
LO-2	Design	Boolean ci	rcuits for simp	le logical pro	oblems						
LO-3	Apply	knowledge	about operatin	g system beh	avior to	devel	op ef	ficien	t program	IS	
LO-4	Explain	n the basic r	nodels of com	putation							
Syllabu	s Outline	e									Learning Outcomes
1		n logics [6 l n algebra, T	nrs] Fruth tables, L	ogic gates an	nd circuit	ts					LO -2
2	-	n architectur eumann arch	e [12 hrs] hitecture, Mem	ory hierarch	y, Instruc	ction	sets a	and I/C	) Techniq	ues	LO-1
3			g systems [12] reads, scheduli	-	s and IO	man	agem	ent			LO-1, LO-2
4	-	uting models nodels of co	s [12 hrs] mputation, fin	ite automata	and Tur	ing m	achir	ıes			LO-1, LO-4
Assessn	nents										
Assessn	nent								Wei	ght	Learning outcomes
Continu	ious	In-c	lass test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (CA	A) In-c	class test - 02						25% (1	.5 hrs)	LO-2, LO-3
Written	examina	ation (WE)							50% [	3 hrs]	LO-1, LO-2, LO-3

Module	Code	DA14	11	Module Title			М	athem	atical Fo	undations fo	or Business
Credits		3		Hours/Week		С	Е	0	Evalu	uation %	Prerequisite
GPA/N	GPA	GPA	Lecture	es Lab / Tutorial s 2	Self- stud y 6				<b>CA</b> 50	<b>WE</b> 50	None
Module	Aim:		mary aim of th asic calculus to	is course is to p	provide an				f busines		nd
Learnin	g Ontco			borre upprieu	10115 111 04	Silles	<u>s una</u>	ccono	intes		
			dule, the stude	nts should be a	ble to:						
LO-1			lgebraic knowl functions.	edge with topi	es includin	ıg qua	adrati	c, exp	onential,	logarithmic	and
LO-2	-	ze probl na and n	ems in busines ninima	s and managem	ent scienc	es to	find	optima	al solutio	ns using the	theory of
LO-3	Const	ruct and	interpret graph	s of basic func	tions and t	heir o	leriva	atives			
LO-4	Evalu	ate limit	s, continuity an	d derivatives o	f functions	s fror	n thei	r grap	hs and/or	r equations.	
Syllabu	s Outlin	ie									Learning Outcomes
1	Real	number	of Algebra [8   s, polynomial radicals, quad	s, factoring						s, integral	LO -1
2	Carte functi	sian coo ons, line	their graphs [6 rdinate system ar functions, c emand & suppl	, equations of ost, revenue &							LO-1, LO-4
3	Introd		nd Logarithmic o exponential j	-	-	the	logai	rithmio	c function	n and their	LO-1, LO-2
4	~	-	onometry [4 hr and their grap		ies						LO-1, LO-4
5	Limits	s, contir	e variable [18] uity, derivati Implicit differen	ves, Marginal	function	s, ap	oplica	tions	of the	derivative,	LO 2, LO-3 LO- 4
Assessn	nents										
Assessm	nent								Wei	ight	Learning outcomes
Continu	0116		In-class test –	1					15% [1	.5 hrs]	LO-1, LO-3
Assessm		(A)	In-class test –	2					15% [1	.5 hrs]	LO-2, LO-3 LO-4
			Quizzes [Take	home]					10% [	3 hrs]	LO-2, LO-3 LO-4
			Homework [T	utorials]					10% [2	12 hrs]	LO-2, LO-3 LO-4
Written	examir	nation (V	VE)						50% [	3 hrs]	LO-1, LO-2 LO-3, LO-4

Module	Code	DA1121	M	odule Title			Pro	babili	ty and Sta	tistics for B	usiness – II
Credits		3	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA1111
			2	2	6				50	50	
Module	Aim:	This module	e aims to prov	ide knowledg	ge of infe	erenti	al sta	tistics	for solvir	ng business j	problems
Learnir	ng Outco	omes									
After co	mpletin	g this module	, the students	should be abl	e to:						
LO-1	hypot	hesis testing	-					-	-		-
LO-2	Expla	in the concep	t of regression	and use reg	ression to	echni	ques	to assi	st in deci	sion making	
LO-3	Make	use of statist	ical software t	o carry out a	nalyses ł	based	on th	e abo	ve topics		
Syllabu	s Outlin	e									Learning Outcomes
1	Comp		6 hrs] eans from inde r difference in		ulations,	pair	ed t-t	est, F	-test for r	atio of two	LO-1, LO-3
2	ANO	VA [12 hrs]	two-way ANO		tion to d	lesign	-of-e:	xperin	nents		LO-1, LO-3
3	Probe	ubility structu	alysis [6 hrs] re for conting roportions, te			risk a	nd oa	lds-ra	tios, Chi-	square test	LO-1, LO-3
4	-	parametric tes xon rank sum	sts [6 hrs] 1 test, Kruskal	Wallis rank	test, and	other	• non•	-paran	netric tes	ts	L01, L03
5			ple linear regi ares, measure			regre	ssion	assun	nptions		LO2, LO-3
6	Exten	ding the simp	ression and modele bivariate modelling non	odel, testing		s of th	ne mo	del, di	ummy vai	iables and	LO1, LO2, LO-3
Assessn	nents										r
Assessn	nent								Wei	ght	Learning outcomes
		In-c	lass test - 01						15% [1	.5 hrs]	LO-1, LO-2
Continu		Lab	practical test	- 01					15% (1	.5 hrs)	LO-2, LO-3
Assessn	ients (C		e-home assign	ment					20% (x	x hrs)	LO-1, LO-2, LO-3
Written	examir	nation (WE)							50% (	3 hrs)	LO-1, LO-2
Referen											

Module	Code	DA1341	Me	odule Title				Data	a Structur	res and Alg	orithms
Credits		3	Но	ours/Week		С	Е	0	Evalı	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y	-			CA 50	<b>WE</b> 50	DA1321
Module	Aim:	The aim of participants	f this module	-	-	abase	and	prog			echniques to th
Learnir	ng Outco	mes									
After co	mpleting	this module	, the students	should be abl	e to:						
LO-1	Constr	ruct common	data structure	s							
LO-2	Design	n appropriate	data structure	s and algorit	hms for	a give	en situ	uation	business	problem	
LO-3	Analy	se the comple	exity/performation	ance of basic	algorith	ms					
Syllabu	s Outlin	e									Learning Outcomes
1			es and operations, Queues, Stat		tables						LO-1
2		algorithms [1 sions, search	2 hrs] ing and sortin	g							LO-3
3		-	sign technique er, greedy app		nic progr	·amm	ing				LO-2, LO-3
4			is of algorithm and Big Thete								LO-3
Assessn	nents										
Assessn	nent								Wei	ght	Learning outcomes
Continu			programming	tests - 01					20% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (CA	A) Lab	programming	tests - 02					30% [1	.5 hrs]	LO-2, LO-3
Written	examin	ation (WE)							50% [	2 hrs]	LO-1, LO-2 LO-3
	ices										•

Module	Code	DA1421	M	odule Title					Busine	ess Calculus	8
Credits		3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s 2	Self- stud y 6				CA 50	<b>WE</b> 50	
Module	Am	This module and finance	e aims to provi		-	anced	busi	ness c			ations in busines
Learnin	g Outcor	nes									
			, the students	should be abl	e to:						
LO-1			indefinite inte ess application		oraic, trig	gonor	netric	e, expo	onential, l	ogarithmic	functions and
LO-2	Develo	p basic inte	gration technic	ques to solve	simple d	liffere	ential	equat	ions		
LO-3		te multivaria riable funct	able functions	, compute lin	nits and c	leriva	tives	and f	ind the lo	cal extrema	for
	s Outline		ions.								Learning Outcomes
1	Antider theorem		d rules of inte s, application								LO -1, LO-2
2	Differe	ntial equati	ons [12 hrs] ions, separabl pplications to		Logistic	c diff	erent	ial eq	vuations,	first order	LO-1, LO -2
3	Functio	ons of severc	l Variables [1] al variables, lin xima and mini	nits and cont							LO -2, LO -3
Assessm	nents										·
Assessn	nent								Wei	ght	Learning outcomes
		In-c	lass test - 01						15% [1	.5 hrs]	LO-1, LO-2
Continu	ious	In-c	lass test - 02						15% [1	.5 hrs]	LO-2, LO-3
	ients (CA	.) Qui	zzes [Take Ho	me]					10% [	3 hrs]	LO-2, LO-3
		Hor	nework [Tuto	ials]					10% [1	2 hrs]	LO-1, LO-2, LO-3
Written	examina	tion (WE)							50% [	3 hrs]	LO-1, LO-2, LO-3
Referen											

Module	e Code	DA242	21	Modu	e Title				Int	roductior	to Econom	etrics
Credits	5	2		Hours	/Week		С	Е	0	Evalı	ation %	Prerequisites
GPA/N	GPA	GPA		Lectures	Lab / Tuto rials	Self- stud y				CA	WE	DA1111
				2	-	4.66				50	50	
Module	e Aim:	This mo	odule	aims to provide t	he know	ledge red	quirec	l for e	econor	metric me	odelling.	
Learniı	ng Outc	omes										
After co	ompletin	g this mo	dule,	the students shou	ıld be abl	e to:						
LO-1	Descr	ribe the p	ropert	ies of regression	estimato	rs and he	ow to	addr	ess vie	olations o	of regression	assumptions
LO-2		nguish be lling thes		cross-sectional, es of data	time seri	es and p	anel o	lata a	nd de	scribe the	challenges	associated with
LO-3	Interp	oret repor	ted re	gression results								
LO-4		ine relati tical softv		os between varia	bles usin	g approp	oriate	econ	ometri	ic models	and diagno	stic tests using
	statis		vare									Learning Outcomes
1	Deriv	ing OLS	estir	ion estimators [6 nates, propertie stic testing		OLS e	stima	tors,	viola	tions of	regression	LO-1, LO-2, LO-3, LO-4
2		-		th regularization <i>fitting and regul</i>		, Lasso	& rid	ge re	gressi	on		LO1, LO-3, LO4
3	Intro		o max	models [6 hrs] imum likelihood	estimatio	on, Lined	ar Pr	obabi	ility M	lodel, Lo	git, Probit,	LO-2, LO-3, LO-4
4	Pooli		-	l data [6 hrs] t cross sections,	differen	ces in di	ifferei	nces,	fixed	effects a	nd random	LO-2, LO-3, LO-4
5			-	ion Models [4 hr on bias, identific		oblem, IV	∕ estir	natio	n and	2SLS		LO-1, LO-3, LO-4
Assessm	nents								-			
Assessm	nent									Wei	ght	Learning outcomes
			In-cla	uss test - 01						20% [	1 hrs]	LO-1, LO-2, LO-3
Continu Assessm	uous nents (C	CA)	In-cla	uss test - 02						20% [	1 hrs]	LO-1, LO-2, LO-3
			Take	home assignmer	nt					10% [	2 hrs]	LO-1, LO-2, LO-3, LO-4
Writter	n examin	nation (V	VE)							50% [	2 hrs]	LO-1, LO-2, LO-3
****												

Module	Code	DA2311	M	odule Title					Database	e Manageme	nt
Credits		3	Но	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 7	-			CA 50	<b>WE</b> 50	None
Module	Aim:	This module work with d	e provides stud	- lents with the		knov	vledg	e and			ed to design and
Learnin	g Outco	mes									
			, the students	should be abl	e to:						
LO-1	Make	use of databa	ase processing	concepts to	solve the	info	rmati	on req	uirement	s of organiza	ations
LO-2	Apply	database the	ory to the des	gn and imple	ementatio	on of	relati	ional c	latabases		
LO-3	Apply	SQL queries	5								
Syllabus	o Outline	<u>è</u>									Learning Outcomes
1	Definit	action [6 hrs tion of a date zations	] abase, databa	se manageme	ent syster	ms ai	nd the	eir imp	portance	to business	LO-1
2		-	rocess [10 hrs onships, ER die								LO-1, LO-2
3		onal Model [ onal databas	6 hrs] e model, table	s, integrity c	onstraini	ts and	l fore	ign ke	ys		LO-1, LO-2
4		lization [8 h Codd Norm	rs] al forms, data	base optimize	ation						LO-2
5	~ .	-	rs, selection, ir data	asertion, upd	ates, joir	ıs, gr	oups	and c	onstructi	ng complex	LO-3
Assessm	ents							-			
Assessm	ent								Wei	ight	Learning outcomes
Continu	ous	Lab	practical test	- 01					25% [1	.5 hrs]	LO-1, LO-2
Assessm	ents (CA	A) Lab	practical test	- 02					25% [1	.5 hrs]	LO-2, LO-3
Written	examina	ation (WE)							50% [	3 hrs]	LO-1, LO-2
Referen	ces										

Module	Code	DA2321	M	odule Title				Sy	stems Ar	alysis & D	esign
Credits		2	Н	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	None
Module			2 aims to make t								formation systems
Learnin	ng Outcon			2			<u> </u>				
			e, the students	should be abl	e to:						
LO-1	Explain	data to an	alyze and spec	ify the requir	ements c	of a sy	stem				
LO-2	Demon	strate busir	ness functions	and processes	s using U	ML					
LO-3	Apprais	se design d	ecisions depen	ding on busir	ness scen	arios					
LO-4	Propose	e appropria	te strategies fo	r system imp	lementat	ion, p	orojec	et man	agement	and deploy:	ment
Syllabu	s Outline										Learning Outcomes
1	-	Initiation [ ement deter	5 hrs] mination, func	tional and ne	on-functi	onal	requi	remen	ts		LO-1
2		ng [6 hrs] onal, structi	ural and behav	ioral modelii	ng of req	uiren	ients				LO-1, LO-2
3	Design Databa		e-computer inte	eractions and	physica	l arch	itect	ure de	signs		LO-3
4		iction [6 hr entation, p	s] roject manage	ment, installe	ution, cha	inge	mana	gemer	nt		LO-3, LO-4
5		stration [6 ions, backu	hrs] ps, configurati	ons, user sup	port						LO-4
Assessm	ients										1
Assessm	nent								Wei	ght	Learning outcomes
Continu	ious	In-o	class test - 01						25% [	l hrs]	LO-1, LO-2
	nents (CA	) Ind	ividual Assess	ment (Take h	ome)				25% [	l hrs]	LO-2, LO-3, LO4
Written	examina	tion (WE)							50% [2	2 hrs]	LO-1, LO-2
Referen	COS										

Module	Code	DA2411	Μ	odule Title					Linea	ar Algebra	
Credits		3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA1421
			2	2	6				50	50	
Module	Aim:	applications		led to give t	he appr						to solve busines al mathematica
Learnir	ng Outco	omes									
After co	mpleting	g this module	e, the students	should be abl	e to:						
LO-1	Defin	e the concept	ts of sequence	and series an	d determ	nine li	mits	of seq	uences ai	nd converge	nce of series
LO-2	Solve	eigenvalues	and eigenvect	ors							
LO-3	Solve	systems of li	inear equation	s using matrie	ces and a	pply	these	meth	ods in bu	siness applie	cations
LO-4	Make	use of techno	ological tools	to solve linea	r algebra	a cono	cepts				
Syllabu	s Outlin	e									Learning
·	-	uction to vec	tors [3 hrs]								Outcomes
1	Introd	luction to ve	ectors and vectors, i			oduc	t, ort	hogor	nal vector	rs, linearly	LO -3
2	Systen elimin	ns of linea nation, LU fa	equations and r equations, ctorization, er ysis, Solving li	matrix alge ror in solvin	bra, Ga g linear	syste	ms, it	eratio	on method		LO -3, LO -4
3	Chara		oblem [15 hrs lynomial, dete composition		envalues	and	eige	envect	ors, QR	algorithm,	LO-2, LO-4
4	Infinit Infinit	te Sequences	and Series [9 infinite series		z power	serie.	s, Tay	vlor a	nd Macla	urin series	LO -1
Assessn	nents										
Assessn	nent								Wei	ght	Learning outcomes
Continu	ious	In-c	class test - 01						10% [1	.5 hrs]	LO-3, LO-4
Assessn	nents (C	A) In-c	class test - 02						10% [1	.5hrs]	LO-2, LO-3 LO-4
		Hor	nework Quiz ·	- 01					10% [1	.5 hrs]	LO -3, LO-4
		Tute	orials/ Lab pra	ctical test					10% [1	.5hrs]	LO-1, LO -3 LO-4
Written	examin	ation (WE)							50% [	3 hrs]	LO-1, LO-2 LO-3, LO-4

Module	odule CodeDA2921Module TitleOperations Manaredits3Hours/WeekCEOEvaluation 9						is Managem	ent			
Credits		3	Но	ours/Week		С	Е	0	Evalı	ation %	Prerequisites
GPA/N	GPA/NGPA GPA GPA GPA GPA GPA GPA GPA GPA GPA								CA 50	<b>WE</b> 50	None
Module			-		o invest				systems a	nd procedu	res for managing
Learnin	ng Outcom	nes									
LO-1 LO-2	Identify Explain competi	key concept the strateg tive advant	ic role of oper	of operations ations manag	manage gement in	i crea	ting a	and en	hancing	an organizat	
LO-3 Syllabu	s Outline					i ope	Tution				Learning Outcomes
1	Operati		] ement, Operat nd Managing		uance, O <sub>l</sub>	perat	ions .	Strate	gy,		LO-1, LO-2
2	Process design d	Analysis, 1 and Process	Design and Pr Product design s Selection for nd Analysis, W	and Proces. Services, Lo	s Selectic cation Pl	on for lannii	ng an				LO-2, LO-3
3	Forecas and Ma	sting, Strate ster Schedu	lling Processe egic Capacity lling, Materian ning (MRP II)	Planning for ! Requiremen	t Plannir	ıg (M	IRP I	), Mar	ufacturii	ıg	LO-2, LO-3
Assessn	nents										-
Assessn	nent								Wei	ght	Learning outcomes
Continu		-	lass test – 01						25% [1	.5 hrs]	LO-1, LO-2
Assessm	nents (CA)	) In-c	lass test - 02						25% [1	.5 hrs]	LO-3
Written	examina	tion (WE)							50% [	3 hrs]	LO-1, LO-2, LO-3
											LO-3

Module	Code	DA2111	M	odule Title				Stat	istical &	Machine Le	arning
Credits		3	Но	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA1121, DA2421
	2     2     6     100     -       This course aims to provide theoretical and practical aspects of statistical and										
Module	Aim:		e aims to prov for business ar		cal and	pract	ical a	aspect	s of stati	stical and r	nachine learning
Learnin	g Outco	mes									
After co	mpleting	this module	, the students	should be abl	e to:						
LO-1	Descri	be the funda	mental concep	ots in problen	n-solving	g with	inte	lligent	systems		
LO-2	Explai	n the mather	natical basis fo	or the technic	ques used	l in st	tatisti	ical an	d machir	e learning	
LO-3	Apply	the appropri	ate computation	onal intellige	nce tech	nique	s for	a give	n problei	n	
LO-4	Make	use of machi	ne learning to	ols in softwa	re to solv	ve bu	sines	s-relat	ed proble	ems	
Syllabus									1		Learning Outcomes
1	Empir	ical Risk Mi	tistical Machin nimization, Ba dimensions			er, PA	C lea	urnabil	ity, Unif	orm	LO-1, LO-2
2	Review	Convergence, VC dimensions Supervised Learning Algorithms I: Regression Algorithms [7 hrs] Review of Linear Regression, Model Selection and Regularization (Subset Selection Stepwise Selection, Ridge Regression, LASSO), Model Comparisons								Selection,	LO-1, LO-3, LO-4
3	Logist	ic Regressio	ng Algorithms on (Binary, M ysis, Decision	ulti-Class),	Naive B	ayes,			near and	Quadratic	LO-1, LO-3, LO-4
4	-		ng Algorithms Forests), Boos			-			Boost)		LO-1, LO-3, LO-4
5	Overfi Test M	tting and Un ISE, Mean Al	aluation and V aderfitting, Bio bsolute Error, DC Curve, Vali	is-Variance ' Root Mean S	Trade-o <u>f</u> Squared I	Error	), Co	nfusio			LO-1, LO-2, LO-3
6	Cluste		ning Algorithi sionality Red		cipal Co	ompoi	nent	Analy	sis, Sing	ular Value	LO-1, LO-3, LO-4
Assessm	ents										
Assessm	ent								We	ight	Learning outcomes
		Gro	up Assessmen	t – 01 (Take	home)				40% [	3 hrs]	LO-1, LO-2
Continu Assessm		(A)	vidual Assess	ment – 01 (T	ake hom	e)			30% [	[3 hrs]	LO-2, LO-3, LO-4
- 100 000111		·	practical test	- 01					30% [	2 hrs]	LO-1, LO-2, LO-3, LO-4
Referen	ces										

Module	Code	DA2451	M	odule Title				Mult	ivariate N	Aethods in B	susiness
Credits		3	He	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 7				<b>CA</b> 50	<b>WE</b> 50	DA1121
Module	Aim:		-			on sta	tistica	al met			ata with multiple
Learnir	ng Outco		er observation.								
			e, the students	should be abl	e to:						
LO-1	Expla	in the use of	f multivariate d	ata in busines	ss applic	ations	5				
LO-2	Apply	different te	chniques to vis	ualise multiv	ariate da	ta an	d deri	ve su	mmary st	atistics	
LO-3	Select data	and apply a	appropriate mul	tivariate tech	iniques to	o real	datas	sets in	view of	obtaining in	sights from the
LO-4	Discu	ss the limita	tions and assur	nptions unde	rlying th	e ana	lyses				
Syllabu	s Outlin	e									Learning Outcomes
1	-		ariate analysis ata, data displa								LO-1
2	Geom	etry of the	and random sa sample, randor c, generalized v	n samples a	nd expec					mean and	LO-2
3	Multiv	variate norm	nal distribution nal density, san arge sample pro	npling from a			norn	nal di	stribution	ı, sampling	LO-2
4	Paired		everal multivar ons, one-way M			IANC	VA,	profile	e analysi	s, repeated	LO-3, LO-4
5			r regression [6 mation, inferen		ecking, c	compo	aring	two fe	ormulatic	ons	LO-3, LO-4
6	Popul	ation princ	ents and factor ipal componen ogonal factor n	nts, summari		nple	varia	tion,	graphing	g principal	LO-3, LO-4
7		minant anal iscriminant j	ysis [3 hrs] function and te	sts of signific	ance for	two g	group	s			LO-3
Assessn	nents										
Assessn	nent								We	ight	Learning outcomes
Continu			class test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (C	A) La	b practical test	- 01					25% [1	.5 hrs]	LO-2, LO-3
Written	examin	ation (WE)	)						50% [	3 hrs]	LO-1, LO-2 LO-4
	ices										· .

Module	Code	DA2431	Μ	odule Title			]	[ntrod	uction to	Operations	Research
Credits		3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA/NGPA GPA GPA GPA GPA Lectures Lab / Self- Tutorial stud s y 3 - 7								CA	WE	DA1421
Module	Aim:	This course	aims to introd	- uce fundame		opera	tions	resea	50 rch conce	50 pts.	
<b>.</b> .	0.4									1	
	ng Outco		, the students	should be abl	e to:						
			ance of operat			ness	decis	ions			
LO-1			research theory								
LO-2	-	-	d mathematica								
LO-3 Syllabu	s Outlin		u mathematica		obtain 0	pum					Learning Outcomes
1	Origin	uction [6 hrs as of OR, Def testing and .	ining the prob	lem, Formulc	ite a mati	hema	tical	model	, Deriving	g solutions,	LO -1
2	Introd		ng [12 hrs] Jex method, D Insportation &				ity ar	nalysis	s, Other I	P solution	LO -2, LO -3
3	Use of		ng [12 hrs] ables in model bound techniq						teger Pro	ogramming	LO -2, LO -3
4	Shorte	est-path pro	tion Models [6 blem, Minimu problem and	ım spanning	g tree p plex proi	oroble blem	em, I	Maxin	um flow	problem,	LO-2, LO-3
5	-	nic Programi iew, Determi	ming [6 hrs] inistic DP, and	l Stochastic I	) DP						LO-2, LO-3
Assessn	nents										
Assessn	Assessment Weight							Learning outcomes			
Continu	ious	In-c	lass test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (C.	A) Indi	vidual Assess	ment (Take h	ome)				25% [1	.5 hrs]	LO-2, LO-3
Written	examin	ation (WE)							50% [	3 hrs]	LO-1, LO-2
Referen	ices										

Module	dule CodeDA2121Module TitleData Management &edits2Hours/WeekCEOEvaluation							nent & Visu	alization		
Credits		2	He	ours/Week		С	Е	0	Eval	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial sSelf- stud yCAWH-42.66100-		WE	None				
Module			aims to help s al and written	tudents to art	iculate id				nd big da	ta and com	nunicate finding
Learnin	g Outcom	es									
After co	mpleting th	is module	e, the students	should be abl	e to:						
LO-1	Explain t	the need for	or data visualiz	zation and the	e data vis	sualiz	ation	proce	SS		
LO-2	Develop	appropria	te visualizatio	ns for given o	lata						
LO-3	Develop	business J	performance d	ashboards us	ing data	visua	lizati	on sof	tware		
Syllabu	s Outline										Learning Outcomes
1	Data sear	Data search and acquisition [6 hrs]									LO -1
2		Data analysis using software tools [6 hrs] Static charts, Reshaping data, Measure names and values									LO -2, LO -3
3	Chart typ	oes and Ch	nart selection [	5 hrs]							LO -2, LO -3
4	Annotati	ons and M	laps [4 hrs]								LO-2, LO-3
5	Data stor	ies and In	teractive dash	boards [6 hrs	]						LO-2, LO-3
Assessm	nents										1
Assessm	nent								We	ight	Learning outcomes
	Individual Assessment								30% [1	.5 hrs]	LO-1, LO-2
	Continuous Lab practical test Assessments (CA)								30% [1	.5 hrs]	LO-1, LO-2
Assessm	ients (CA)	Gro	up assignment	t (Take home	)				40% [	3 hrs]	LO-1, LO-2, LO-3
Referen	005										

Module Code	DA291	1 M	lodule Title							Writing
Credits	2	Н	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/NGPA	GPA	s y						CA	WE	None
		2	-	4.66				100	-	
Module Aim:		arse is designed to al documents	o develop skil	ls that w	ill en	able	to pro	duce clea	r and effect	ive scientific and
Learning Out	comes									
After complet	ng this mod	dule, the students	should be abl	le to:						
		and other source	s and methods	s of resea	arch a	nd de	ocume	ntation o	n business a	and technology
LO-1 area		e understanding	of writing and	laditing	nroce		d ba a	ble to pr	duce e ver	aty of technical
		n acceptable leve								lety of technical
		considerations in					-			
Syllabus Out	ine									Learning Outcomes
1 Wri Wri	ting technic	s, Analyzing audi cal/scientific docu mmunications								LO -1, LO-2, LO-3
Assessments										
Assessment								Wei	ght	Learning outcomes
Continuous	-	In-class activity – 01						30% [1	.5 hrs]	LO-1, LO-2, LO-3
Assessments	(CA)	In-class activity – 02						30% (1	.5 hrs]	LO-1, LO-2, LO-3
	:	Individual Assess	sment (Take h	iome)				40% [	3 hrs]	LO-1, LO-2, LO-3
References										

Module	e Code D	A3111	M	odule Title					Text	Analytics	
Credits	:	2	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA/NGPA GPA s y								WE	DA2111	
				-						-	
Module	e Aim: Th	is modul	e aims to enab	le participant	s to get a	a han	ds-on	expe	rience on	text mining	
Learni	ng Outcome	s									
After co	ompleting thi	is module	e, the students	should be abl	e to:						
LO-1	Identify t	he linguis	stic features of	natural langu	ages						
LO-2			nderstanding o	f principles o	of variou	s nati	ıral la	anguag	ge process	sing and tex	t retrieval
-	technique		cs algorithms f	or real world	problam		ina				
LO-3					problem	1 5017	mg				Learning
Syllabu	s Outline										Outcomes
1	Overview What is N		cs linguistics, a	ambiguity and	d uncerte	ainty	in lar	iguage	e		LO-1
2	Regular H Regular l	-	ns [5 hrs] s, finite-state a	utomata, moi	phology						LO-2
3			sing [5 hrs] segmentation, i	normalization	ı, morph	ologi	cal a	nalysi	5		LO-2, LO-3
4	Semantic Represen		ning, semantic	analysis, lex	ical seme	antics					LO-2, LO-3
5	Topic Mo Probabili	0.	5 hrs] antic Indexing,	Latent Diric	hlet Allo	catio	n				LO-2, LO-3
6	Advanced POS tagg		[5 hrs] ed entity recog	nition, mach	ine trans	latio	1				LO-2, LO-3
Assessm	nents							-			
Assessr	nent								Wei	ght	Learning outcomes
Contin	uous	Ind	ividual Assess	ment (Take h	ome)				50% [4	4 hrs]	LO-1, LO-2
Assessm	nents (CA)	Gro	oup Assessmen	t (Report & I	Presentat	ion)			50% [.	3 hrs]	LO-2, LO-3
Referen	1005										

Module Code	DA3481Module TitleGIS and Spatial Dataits3Hours/WeekCEOEvaluation %						tial Data A	nalysis			
Credits		3	Но	urs/Week		С	Е	0	Evalı	uation %	Prerequisites
GPA/N	PA/NGPA GPA $GPA$ $GPA$ $Iectures  2 2 6 Iectures  2 2 6 Iectures  CA WE Oectures  CA Oectures  CA Oectures  Oectu$								WE	None	
Module	Aim:	with applied geographic	e aims to introd geoinformation	duce spatial of the s	data appl such as g	geo-st	atisti	cs and	ecision sellecision sellecision sellecision sellecisione sellecisione sellecisione sellecisione sellecisione se	ng, geospati	ain in conjunction al data supply for ing, and thematic
Learnin	g Outco	omes									
After co	mpleting	g this module	e, the students	should be ab	le to:						
LO-1	-	-	of geographic			(GIS)	and	remot	e sensing		
LO-2	Select	and acquire	both primary a	nd secondar	y spatial	data	for us	se in C	JIS		
LO-3	Analy	ze digital dat	a in raster and	vector forma	ats to der	ive ir	nform	ed de	cisions		
Syllabu		-									Learning Outcomes
1		uction [6 hrs] onents of a G	] HS, Raster and	Vector Date	ı , GIS so	oftwa	re Pla	atform	15		LO-1
2		-	d Acquisition ace Technology	-			Imag	ery, C	GPS Appli	ications	LO-2, LO-3
3	Vector	· Operations,	d Modelling [1 Spatial Optim Correlation, P	ization Tech		Spatia	l Dat	a Mod	dels, Spat	iotemporal	LO-2, LO-3
4	Raster	-	essing in GIS   nage Classific		thms, St	atistio	cal ai	nd Ma	achine Le	earning for	LO-2, LO-3
5			ons of GIS Tec siness, Spatial			Ana	lysis,	Consi	umer And	lysis using	LO-2, LO-3
6	Spatia	l Big Data [6	hrs]								LO-2, LO-3
	Overv	iew, Types of	Spatial and Sp	atiotempora	l Big Da	ta, Sp	atial	Decis	ion Supp	ort Systems	10-2, 10-3
Assessm	nents										1 <u>-</u> ·
Assessm	nent								Wei	ght	Learning outcomes
Continu	10116	In-c	lass test - 01						25% [1	.5 hrs]	LO-1, LO-2
Continu		Lab	practical test -	- 01					25% [1	.5 hrs]	LO-2, LO-3
Assessm	ients (C	<b>A</b> )	up project (Tal								

Module	dule Code     DA3411     Module Title     Business Valuation and       dits     3     Hours/Week     C     E     O     Evaluation %						ation and A	nalysis			
Credits		3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 7				CA 50	<b>WE</b> 50	None
Module	Aim:	This modul	e aims to help	- students dev	,	iness	valua	tion a			skills.
<b>.</b>			1		1					5	
	ng Outco		e, the students	-h14 hh1	- 4						
Atter co						- <b>c</b>					
LO-1			cial informatio		-						
LO-2	Appra	uise and value	e projects base	d on discoun	ted cash	flow	meth	od			
LO-3	Devel	op business y	valuation mode	els.							
Syllabu	s Outlin	e									Learning Outcomes
1			nt Analysis [9] hts, Financial	-	, Risk an	ıalysi	s, An	alysis	of growth	h potential,	LO-1
	Financial statements, Financial ratio analysis, Risk analysis, Analysis of growth potents. Comparative analysis of ratios										
	Forecasting and Valuation of Free Cash Flows [9 hrs]										
2		cash flows, Bi o equity valu	uilding financi ation	al models, Er	iterprise	value	ition,	Conti	inuation v	value, Cash	LO-2
	-		f Capital [9 hrs	1							
3			capital, Cost o		leverage	, CAI	PM ai	nd bey	vond, Cos	t of debt	LO-2
4			[9 hrs] Options strat	egies and p	ay-offs,	Equit	y/deb	ot vali	uation, R	eal option	LO-3
5	-	-	ons, Buyouts a		-						LO-3
	Merg	ers & acquis	itions, Offer st	ructures, and	Leverag	ged bi	iyout.	s			LO-3
Assessn	nents										1
Assessn	nent								Wei	ght	Learning outcomes
Continu	ious	In-c	class test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (C	A) In-c	class test - 02						25% [1	.5 hrs]	LO-2, LO-3
Writter	examin	nation (WE)							50% [	3 hrs]	LO-1, LO-2
_	ices										

Module	dule CodeDA3331Module TitleBusiness Applicationdits3Hours/WeekCEOEvaluation						cation Dev	elopment			
Credits		3	Но	С	Е	0	Evalu	ation %	Prerequisites		
GPA/NO	G <b>PA</b> G	PA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA1321
			1	4	5				100	-	
Module	Alm		this course i development.	s to introduc	the co	ncep	ts of	objec	t-oriented	l programn	ning for busines
Learnin	g Outcomes										
	0	module	, the students	should be abl	e to:						
LO-1	Demonstrat	e Integr	ated Develop	ment Enviror	ments fo	or effi	icient	prog	ramming		
LO-2	Explain mo	dern we	eb technologie	s							
LO-3	Apply versi	Apply version controlling for development projects									
LO-4	Develop we	b appli	cations with d	atabase acces	ss and G	JI					
	s Outline										Learning Outcomes
1	Integrated I	Develop	ment Environ	ments [10 hr	s]						LO-1
2	Web Applic Web server.		[15 hrs] cation framew	orks, Web Al	PIs, HTM	1L an	d CS	S			LO-2, LO-4
3	Version Co Version con		g [10 hrs] tems, Git, Git	Hub							LO-3
4	Modern Tre No code de	-	) hrs] ent, Single pag	ge application	ıs, Progr	essiv	e wel	b appl	ications		LO-3, LO-4
Assessm	ients										-
Assessm	ient								Wei	ght	Learning outcomes
	Continuous Assessments (CA) Group project (Take home) (Take home)								50% [	5 hrs]	LO-2, LO-3, LO-4
Assessm	ents (CA)	Indi	vidual Assess	ments (Take	home)				50% [4	4 hrs]	LO-2, LO-3
Referen	000										

Module	Code	DA3451	Mo	odule Title					Numer	ical Methods	5
Credits		2	Но	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA 50	WE	None
Module				- the student	4.66 s with ne	ecess	ary k	nowle	50 dge and	50 skills on nu	merical method
Learnin	g Outcom	ies									
After co	mpleting t	his module	, the students s	should be abl	e to:						
LO-1	solution	s to otherw	ise analyticall	y intractable	problem	s			-		ain approximate
LO-2	integrati differen	ion, solutio tial equatio		d non-linear	equation						
LO-3	Evaluate	e the accura	acy of commo	n numerical 1	nethods						
Syllabu	s Outline										Learning Outcomes
1	Basics of Numerical Methods [4 hrs] Number representation, rounding, truncation, propagation of error, stability and Order							nd Order of	LO-1		
2	Solving	convergence Solving Nonlinear Equations [4 hrs] Bisection method, Newton's method, Secant method, fixed point iteration								LO-1, LO-2	
3	Linear divided	interpolati	nation and Inte on, quadratic s, The Weie blems	interpolatio	on, high						LO-2, LO-3
4	Numerio Errors i	cal Differen <i>n numerica</i>	ntiation and In al differentiation	on, derivative	es based						LO-2, LO-3
5	interpolation formulas, numerical integration using Trapezoidal rule and Simpson's rule Numerical Solutions of Ordinary Differential Equations [5 hrs] Existence, uniqueness, stability, Taylor series method, Euler's method, Runge-Kuta method & Picard's method of successive approximations						unge-Kutta	LO-2, LO-3			
6	Finite Difference methods for Partial Differential Equations [5 hrs] Solving parabolic equations (Black- Scholes equation belongs to this class)							LO-2, LO-3			
Assessm			7		.,		02.00		/		
Assessm	nent								Wei	ght	Learning outcomes
<b>C</b>		In-c	lass test – 01						10% [	1 hrs]	LO-1, LO-2
Continu Assessm	ious ients (CA)	In-c	lass test – 02						10% [	1 hrs]	LO-2, LO-3
			(Take home)						30% [	5 hrs]	LO-2, LO-3
Written	examinat	tion (WE)							50% [	2 hrs]	LO-1, LO-2 LO-3
Referen											

Module								E	thics and	Professiona	alism
Credits	Credits         2         Hours/Week         C         E           Lab /         Self-						0	Evalu	uation %	Prerequisites	
GPA/NO	GPA/NGPA NGPA NGPA Lectures Lab / Self- Tutorial stud 2 - 4.66								CA	WE	None
			_	-					50	50	
Module	Aim:	This module	e aims to prov	ide a holistic	approac	h inco	orpor	ating g	good prac	ctices and et	hics.
Learnin	g Outco	mes									
After con			, the students								
LO-1	Descri	be the conce	pts of ethics a	nd professior	nalism						
LO-2	Explai	n the effect of	of, and the sou	rce of, bias o	r discrin	ninati	on in	a data	intensiv	e system	
LO-3	Analyz	ze ethical iss	ues related to								
Syllabus	s Outline	e									Learning Outcomes
1	Moral		siness Analyti thical princip und in ethics				al cl	aims, d	argumen	ts and	LO -1
2	Ethics	& Technolog	gy [6 hrs]								LO -1
3	Ethica	l foundations	nalism: Guide s of the deliver cal issues in th	y of organize							LO -2, LO -3
4		•	Responsibilit Influence, Co		l Risk ma	nage	ment				LO-2, LO-3
5	Review	w of Code of	Conduct of re	elevant profes	ssional b	odies	[6 hı	rs]			LO-2, LO-3
Assessm	ents										
Assessm	lent								Wei	ight	Learning outcomes
Continu Assessm		A) Indi	vidual Assess	ment (Take h	ome, Po	rtfoli	<b>)</b>		50% [2	10 hrs]	LO-1, LO-2, LO-3
Written	examina	ation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3
Referen	ces										

Module	Code	DA3941	M	odule Title				S	upply Ch	ain Manage	ment
Credits		2	He	ours/Week		С	Е	0	Eval	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 4.66				<b>CA</b>	<b>WE</b> 50	None
Module	Aim:		-			cipan	its to	contri	••		s in supply chain
Learnir	ng Outco	mes									
After co	mpleting	this module	, the students	should be abl	e to:						
LO-1 LO-2	manuf	acturing that	nation of custo represents the r integrative lo	e supply chai	n areas						nd
LO-2 LO-3	Desigr	n and provid	e a practical ap gement and th	proach to su							e context of
Syllabu	s Outline	e									Learning Outcomes
1	Introd	uction to co	ess and Results incepts of SCI infacturing and	M, SCM Ove	-	CRM,	Mar	ket D	istributio	n Strategy,	LO-1
2	Ŭ	e 1	oply Chain and ions Planning,		•	-	hrs]				LO-2
3	~ ~ ~ ~		gn and Collab Collaboration	oration [8 hr	s]						LO-2, LO-3
4	-	-	ults in SCM [8 mance Measur	-	and Suste	ainab	ility,	Proje	ct Presen	tations	LO-3
Assessm	nents										1
Assessn	nent								We	ight	Learning outcomes
Continu	ious	In-c	lass test - 01						25% [	1 hrs]	LO-1
Assessn	nents (CA	A) Cas	e study – 01						25% [	1 hrs]	LO-2
Writter	ı examin	ation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3

Module	Code	DA3211	M	odule Title				1	Agile Bu	siness Anal	ysis
Credits		2	Но	ours/Week		С	Е	0	Evalı	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 4.66				CA 100	WE	DA2321
Module	Aim:	This course	aims to show	how agile va		affec	t the	traditi		ness analys	is approach.
Learnin	g Outcor	nes									
			, the students	should be abl	e to:						
LO-1 LO-2	techniq	ues	derstanding of				-	tices o	of busine	ss analysis j	principles and
	s Outline										Learning Outcomes
1	Busines Market	ss change li & compet	& Strategic C fecycle, Intern itor analysis, t, Balance sco	al & externa Critical suc	l enviror ccess fac	ımen ctors,	t ana Key	lysis, 1 perfe	ormance		LO -1
2	Analys	is and mode	lling of Busin	ess Processes	s [8 hrs]						LO -1
3	-		Analysis [10] ples, methods,		uirements	5					LO -2
4			ness Analyst [ nents & iterat		s and add	option	ı				LO-1, LO-2
Assessm	ients										
Assessm	ient								Wei	ght	Learning outcomes
		Indi	vidual Assess	ment – 01 (T	ake hom	e)			25% [	2 hrs]	LO-1
Continu		Indi	vidual Assess	ment - 02 (T	ake hom	e)			25% [	2 hrs]	LO-1, LO-2
Assecom			lass test – 01						25% [	1 hrs]	LO-1, LO-2
Assessm											
Assessm		In c	lass test – 02						25% [	1 hrs]	LO-1, LO-2

Module	e Code	DA3131	M	odule Title					Dat	a Mining	
Credits	5	2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA2111
			1	2	3.66	Ļ			50	50	
Module	e Aim:		aims to provi plications in la			nd pr	actica	al kno	wledge o	n finding u	seful patterns fo
Learnii	ng Outco	omes									
After co	ompletin	g this module	, the students	should be abl	e to:						
LO-1		ibe the funda ns in large da	mental concep	ots involved i	n the pro	ocess	of dis	cover	ing usefu	l, possibly ι	inexpected,
	-	-	s stages involv	red in the data	a minino	and	infor	natior	ı retrieval	process	
LO-2	-		mining tools		-					-	
LO-3 Syllabu	s Outlin				Jui puite					u dulu set	Learning
-	Testing	l	1								Outcomes
1	Introduction [4 hrs] Descriptive, Predictive and Prescriptive models										LO-1
2	Data Missi	Preprocessing ng value ha		cleaning, D	Data inte				ansforma	tion, Data	LO-2, LO-3
			atterns, Assoc								
3	Aprio assoc	ri algorithm.	Finding free from frequent i	quent itemse	ts using	can	didate	e gen			LO-2, LO-3
4	Simile	ering [4 hrs] arity measure utistical mode	s, hierarchica ls	l clustering, i	non-hier	archi	cal cl	usteri	ng, cluste	ring based	LO-2, LO-3
5		mining applic ty, Churn	ations [4 hrs]								LO-2, LO-3
6		cations of MI zure ML, AW	L platforms [4 S <i>ML</i>	hrs]							LO-3
Assessr	nents										
Assessr	nent								Wei	ght	Learning outcomes
Contin			lass test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (C	(A) In-c	lass test - 02						25% [1	.5 hrs]	LO-2, LO-3
Writter	n examir	nation (WE)							50% [2	2 hrs]	LO-1, LO-2 LO-3
Referei	2005										

Module	Code	DA3311	M	odule Title			Enter	rprise	Resource	Planning (l	ERP) Systems
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	None
			1	2	3.66				50	50	
Module	Aim:	This course	aims to impar	t technical kı	now-how	v to st	uden	ts for	applying	ERP in a pr	actical context.
Learnin	g Outco	omes									
After cor	npleting	g this module	, the students	should be abl	e to:						
LO-1	Mode	l uncertaintie	s in business c	lecision maki	ing						
LO-2	Asses	s the impact of	of uncertaintie	s on the deci	sion-mal	cing p	oroce	SS			
LO-3	Evalu	ate difficultie	s of incorpora	ting uncertai	nties into	o opti	miza	tion m	odels		
Syllabus	Outlin	e									Learning Outcomes
	Introd	uction [3 hrs	1								Outcomes
1	Introd	luction to ER	P, Market, Red implementatio		Failure	of EK	P Im	pleme	ntation: I	Roadmap	LO-1
2			echnologies [		• • •				•.		LO-1
			Management,	Supply Chai	in Manag	gemei	it, EI	RP Sec	curity		
3	Life C Proce	ss, ERP Vend	on [5 nrs] ols and Softwa lor Selection, 1 uctors for the S	ERP Implem	entation	Lifec	ycle,	Pros a			LO-1, LO-2
4	Struct Qualit Purch	ty Manageme	Sales and Dis nt; Cost Mand or Evaluation;	igement, Hur	nan Reso	ource	Qua	ılity M	lanageme	ent,	LO-2, LO-3
5	ERP V Vendo	Vendors, Con ors- Role of th	sultants, and H te Vendor; Co f employees, L	nsultant Type	es of con					ltant,	LO-3
6	Future New T Devel	e Directions i Frends in ERI opment of Ne	n ERP [5 hrs] P, ERP to ERF w Markets and s, Market Sna	P II, Impleme d Channels, I	ntation o Latest El	f Org RP In	aniza	ation-	Wide ERI	o, odologies,	LO-2
Assessm	ents							-			-
Assessm	ent								Wei	ght	Learning outcomes
Continu			Test-01						25% [	1 hrs]	LO-1, LO-2
Assessm	ents (C	A) Case	e study – 01						25% [	1 hrs]	LO-2, LO-3
Written	Exami	nation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3
Reference	ces										

Module	e Code	DA3461	Μ	odule Title				Adv	anced Op	perations Re	search
Credits	;	3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA2431
			3	-	7				50	50	
Module	e Aim:	This course	e aims to provi	de students w	ith knov	vledg	e and	skills	in advan	ced optimiz	ation techniques
Learnii	ng Outco	omes									
After co	ompleting	g this modul	e, the students	should be abl	e to:						
LO-1	Const	ruct a mathe	ematical model	for manageri	al decisi	on pr	oblen	ns.			
LO-2	Evalu	ate limitatio	ns in mathema	tical program	ming mo	odels					
LO-3	Propo	ose OR mode	els to find acce	ptable solutio	ns for re	al-lif	e deci	ision-1	naking p	roblems	
Syllabu	s Outlin	ie									Learning Outcomes
1		mposition m al and Dual	ethods [6 hrs] models								LO -1, LO -2
2	Grap uncor	hical illust	mming [12 hrs] trations, One ptimization, K amming	-variable u						ıltivariable onvex and	LO-1, LO -2 LO - 3
3			ptimization [6 l 1g and Heuristi								LO -1, LO -2 LO - 3
4	Basic		ueuing theory Real world exan works		ıg model	ls bas	ed or	n Birth	-and-Dec	ath process	LO-2, LO-3
5	Comp mode	l, Stochastic	[6 hrs] terministic con continuous-re stic periodic-re	view model, S							LO-2, LO-3
6	Mark		process [8 hrs] processes, 1	LP and opt	imal po	licies	ana	l Alg	orithms	for policy	LO -1, LO -2 LO - 3
Assessr											·
Assessr	nent								Wei	ght	Learning outcomes
	Continuous In-class test - 01								25% [1 hrs] LO-1		
Assessn	nents (C	(A) Inc	lividual Assess	ment (Take h	ome)				25% [	3 hrs]	LO-2, LO-3
Writter	ı examiı	nation (WE)	)						50% [	3 hrs]	LO-1, LO-2, LO-3
											100

Module	Code	DA3121	Me	odule Title				Busi	iness Wo	rkflow Auto	omation
Credits		2	Но	ours/Week		С	Е	0	Evalı	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s 4	Self- stud y 2.66				CA 100	WE	None
Module	Aim:		e aims to impar tomation and re		lation kn		dge a	nd ski	ills on Bu	siness Proc	ess Analysis, Re
Learnin	g Outco	omes									
After co	mpleting	g this modul	le, the students	should be abl	e to:						
LO-1	Expla	in as-is moo	lel of a business	s process usir	ng proces	s ana	lysis	techn	iques and	develop a	process re-design
LO-2	device	es and data	cal concepts in management in	IoT				l dem	onstrate t	he use of co	mponents,
LO-3	Const	ruct busines	ss process mode	ls for execut	able wor	kflow	/S.				
Syllabu	s Outlin	e									Learning Outcomes
1	BPM	lifecycle, Pi	rocess Approac rocess modeling BPMN, UML,	g, Description	ıs & rep	resen	tatio	ns, Mo	odeling si	andards &	LO -1
2		ss Analysis nposition, r	[8 hrs] euse, rework an	d repetition,	events &	exce	eptior	ıs han	dling		LO -1
3	IoT h	-	mputing Fundar software, IoT onments			ana	lytics	in Ia	оТ, ІоТ с	commercial	LO -2
4		nation [8 hr flow pattern	s] s, Process autor	mation envir	onments	such	as M	S Pow	ver Platfo	rm	LO-1, LO-3
Assessm	ents										
Assessm	ient								Wei	ght	Learning outcomes
Continu	20115	Inc	dividual Assess	ment (Mini p	roject, ta	ke ho	ome)		50% [	5 hrs]	LO-2
Assessm		( <b>a</b> )	oup Assessmen esentation)	t (Report wri	ting &				50% [	4 hrs]	LO-1, LO-2, LO-3
	ces										

Module	Code	DA3441	Μ	odule Title			Ir	nvestn	nent and H	Portfolio Ma	nagement
Credits		2	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisite
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y	-			CA	WE	None
		This course	1	2 art knowledg	2.66	and	techn	iques	50 required	50 to analyze	investments and
Module			ancial asset po		c, skills	anu	teenn	iques	icquirea		investments an
Learnir	ng Outcor	nes									
After co	mpleting	this module	e, the students	should be abl	e to:						
LO-1	Explair	n risk and re	eturn in view o	f capital asse	t pricing	and a	arbitr	age pr	icing theo	ory	
LO-2	Describ	oe importan	t concepts of c	liversification	n, efficier	nt fro	ntiers	5			
LO-3	Apply	techniques	of stock, bond	and other tra	dable inv	/estm	ent p	ortfoli	o manage	ement	
	s Outline										Learning Outcomes
1			set Allocation Portfolio Mana		ess, Seleo	cting	Inves	tment	\$		LO-1
2		y Markets [ structure, ]	4 hrs] Primary and S	econdary Ca	pital Ma	rkets,	Excl	ange	& OTC M	Iarket,	LO-1
3		Indicators ucting mark	[5 hrs] set indexes, Sto	ock and Bond	market i	indica	ators				LO-1, LO-2
4		nent Theory nt market hy	v [5 hrs] vpothesis and i	ts implication	ıs						LO-1, LO-2 LO-3
5	Markov	witz portfoli	nent [5 hrs] io theory, Asse				factor	r mode	els of risk	and return	LO-1, LO-2 LO-3
6	Types	of fixed-inc	urities and Oth come securitie nies, derivative	s, Bond valı	ation, a	nalys		-	rtfolio ma	inagement,	LO-1, LO-2 LO-3
Assessn	nents										•
Assessn	nent								Wei	ght	Learning outcomes
Continu			class test - 01						25% [1	.5 hrs]	LO-1, LO-2
	nents (CA	() In-c	class test - 02						25% [1	.5 hrs]	LO-2, LO-3
Assessn									50% [2		LO-1, LO-2

Module	e Code	DA3951	М	odule Title					Principle	s of Market	ing
Credits		2	H	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 4.66	-			<b>CA</b> 50	<b>WE</b> 50	None
Module					uction to		ic ma	rketin			stand factors that
Learniı	ng Outcor	mes									
After co	ompleting	this module	e, the students	should be abl	e to:						
LO-1	Demor	istrate an ur	derstanding o	f marketing c	oncepts	and n	narke	ting of	rientation	18.	
LO-2	Explai	n consumer	behavior and	its application	n in diffe	rent o	contex	xts.			
LO-3	Explai	n the proces	s of product d	evelopment,	orand ma	inage	ment	•			
LO-4			of pricing in th models of dist				roces	s and	common	pricing pra	ctices and
LO-5	Analyz	e different	marketing con	munication t	actics.						_
Syllabu	s Outline	•									Learning Outcomes
1	-		eting Manage								LO-1, LO-3
			<i>marketing mar</i> keting [4 hrs]	agement and	l its appl	icatic	ns				,
2			ophies of mar	keting manag	ement						LO-2
3			ning & Marke								LO-2, LO-3
			pportunity ide		nd strateg	gic pl	annir	ig for i	marketin	8	LO-2, LO-3
4	Identif	y consumer	umer behavior market, influe nkan and Glob	ncing factors,	buyer d	ecisia	on bei	haviou	ır, applic	ation of the	LO-2
5	Segmen	nting bases,	narketing strat segmenting, t			ng an	d pos	itionir	ng the op	portunities	LO-1, LO-2
6	The im	ting researcl portance of n making	h [4 hrs] ` <i>information, l</i>	now to analys	e and di	stribu	te inj	format	tion for n	narketing	LO-3
7	Produc		ategies [4 hrs] l strategies, pr gies	icing strateg	ies, mark	eting	com	munic	ation stra	ategies and	LO-4, LO-5
Assessm	nents										-
Assessn	nent								Wei	ight	Learning outcomes
Contin	uous	Ind	ividual Assess	ment (Take h	ome)				25% [	4 hrs]	LO-1, LO-2
	nents (CA	A) Cas	e study						25% (	2 hrs]	LO-1, LO-2 LO-3, LO-4
Writter	n examina	ation (WE)							50% [	2 hrs]	LO-1, LO-2 LO-3, LO-4 LO-5

Module	e Code	DA3921	M	odule Title			Oı	ganiza	ation Beh	aviour & M	lanagement
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 4.66	_			CA 50	<b>WE</b> 50	None
Module			_			orgar	nizati	onal n			ly these concept
Learnii	ng Outco	mes									
After co	ompleting	this module	e, the students	should be abl	e to:						
LO-1	Explai	n the basic c	concepts and th	neories of org	anizatio	nal be	ehavi	our an	d applicat	tions.	
LO-2	Apply	organization	nal managemen	nt theories to	modern	orgai	nizati	ons			
Syllabu	s Outline	e									Learning Outcomes
1	Organ organi technic	izational str zation. Diffe ques, Manag	tional vision, I ategy, Structur erent roles of n gement styles, I and controllin	res of moderr nanager, Mai Decision mal	ı organiz nager an	ation d lea	, Cor der, ,	icept o Mode	of learning rn manag	g gement	LO -1
2	Basic I Comm Organ applice	human proce unication an izational cui ations, Mane	viour [12 hrs] ess and charac ad motivation, lture and contr agement of cor Conflict manag	Individual ar ol, concepts aflict. Manag	nd organ of autho	izatio rity, I	nal e Powe	ffectiv r, Res <sub>l</sub>	eness. ponsibility	y and their	LO -2
Assessm	nents										
Assessm	nent								Wei	ght	Learning outcomes
Contin	uous	In-c	class test - 01						25% [1	.5 hrs]	LO-1
Assessn	nents (CA	A) In-c	class test - 02						25% [1	.5 hrs]	LO-2
XX7	ı examina	ation (WE)							50% [2	hrs]	LO-1, LO-2
writter									5070 [2	2 111 8 ]	LO-1, LO-2

Module	e Code	DA4421	M	odule Title				Т	ime Serie	es Econome	trics	
Credits		3	He	ours/Week		С	Е	0	Evalu	ation %	Prerequisites	
GPA/NGPA     GPA     Lectures     Lab / Self- Tutorial     Self- stud     CA       grad     grad     s     y							WE	DA2421				
			2	2	6				50	50		
Module	e Aim:	This course	aims to famili	arize the stud	lent with	the t	ime-s	series	econome	trics models	3.	
Learnii	ng Outcor	nes										
After co	ompleting	this module	, the students	should be abl	e to:							
LO-1	Explai	n the concep	ots and propert	ies of station	ary and i	ntegr	ated	univar	iate time	series		
LO-2					s models	and	identi	fy app	propriate	univariate a	nd multivariate	
			based on the or arametric variation of the second s									
LO-3					actimat	ion .	liaan	ontio	haaling	and model (	alastion to time	
LO-4		nodel buildi		identification	i, estimat	.1011, 0	Jiagn		checking	and model s	selection to time	
Syllabu	s Outline										Learning Outcomes	
		ction [8 hrs	-									
1	Compo correla		e series, basic	time series i	nodels, A	ACF a	and c	orrelo	gram, tes	ts of serial	LO-1	
	Station	ary processe	es [8 hrs]									
2	AR, MA	A, ARMA, B	ox-Jenkins me	thodology							LO-2, LO-4	
3			cesses [8 hrs] y, ARIMA mod	lels, cointegr	ation and	d erre	or co	rrectic	on models	7	LO-2, LO-4	
4		ariate model	ls [8 hrs] tion bias, tria	ngular system	ıs. VAR ı	node	ls				LO-2, LO-4	
		ing volatilit		8								
5		GARCH m	-								LO-3, LO-4	
Assessm	nents										ļ	
Assessn	nent								Wei	ght	Learning outcomes	
Contin	lous	In-c	lass test - 01						15% [	1 hrs]	LO-1, LO-2	
	nents (CA	) Tak	e-home assign	ment					35% [2	3 hrs]	LO-2, LO-3, LO-4	
		I							500/ F	21 1	LO-1, LO-2,	
	n examina	tion (WE)							50% [	3 hrs]	LO-4	

Module	dule CodeDA4321Module TitleData Privacy & Sdits2Hours/WeekCEOEvaluation 9							acy & Secu	rity		
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 4.66				CA 100	WE	None
Module		is course ated to da	aims to intro	duce inform		urity	prin	ciples		acy, legal a	nd ethical issue
Learnin	g Outcome	s									
After co	mpleting thi	is module.	, the students s	should be abl	e to:						
LO-1	Demonstr	ate the un	derstanding o	f vulnerabili	ty in a co	mput	er sy	stem			
LO-2	Demonstr	ate the kn	lowledge of fu	indamentals	of compu	iter a	nd da	ita sec	urity		
LO-3	Apply inf	ormation	security princ	iples to prote	ct of sec	urity	of da	ta			
LO-4	Discuss th	ne legal, p	rivacy and eth	nical issues a	round da	ta and	l thei	r impa	act		
	s Outline										Learning Outcomes
1	Threats an <i>Viruses, S</i>		s [6 hrs] Phishing, Spoo	ofing, Social	engineer	ing, l	Denia	ıl of se	ervice atte	acks	LO -1
2	Informati What is In		ty [6 hrs] n Security, Go	als of inform	ation sec	curity	, CIA	triad	,		LO -2
3		Symmetric	ptography [10 c and asymmet		ithms, Pi	ublic-	Prive	ate key	y encrypti	on, Digital	LO-2, LO-3
4		-	thics [6 hrs] vacy Laws and	l Ethics							LO-4
Assessm	nents										•
Assessm	ient								Wei	ght	Learning outcomes
<u> </u>		In-c	lass test - 01						25% [	1 hrs]	LO-1
Continu Assessm	ious ients (CA)	In-c	lass test - 02						25% [	1 hrs]	LO-2, LO-3
	()	Indi	vidual Assessi	ment / Portfo	lio				50% [	5 hrs]	LO-4
Referen	ces										

Module	Code	DA4131	M	odule Title			Ad	lvance	d ML Ap	plications f	or Business
Credits		3	He	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures 2	Lab / Tutorial s 2	Self- stud y 6	-			CA 100	WE	DA2111
Module	Aim:			ands-on expe	eriences t					g and reinfo	prcement learnin
Learnir	ng Outco	omes									
After co	mpletin	g this module	e, the students	should be abl	e to:						
LO-1	Identi	ify the princip	ples of deep le	arning neural	network	s					
LO-2	Expla	in common i	nethods for de	ep learning							
LO-3	Demo	onstrate an ur	nderstanding of	f reinforceme	nt learni	ng					
Syllabu	s Outlin	ne									Learning Outcomes
1	Overv	view/Recap o	ural Networks f Machine Lea urchitecture, A	rning, A Brie					orks, The	e Basic	LO -1
2	Idea and layered architecture, Applications of DL, Challenges of DL         Training Neural Networks [5 hrs]         Multilayer perceptron, Regularization, Parameter Norm Penalties, Weight Decay, Ea         Stooping, Dropout, Data-set Augmentation and Artificial Noise									ay, Early	LO -1
3	Grad	ient Descent	eural Network and Stochastic pagation, Cost	Gradient De	escent, C	hain	rule c	and Co	omputatic	onal	LO -1
4	Conv	olutional Net	ural Networks erator, Convolu	(CNNs) [5 h		itect	ure, I	mplem	nentation		LO -2
5		cations of Cl	NN [3 hrs] ng CNN, Neuro	o-style transfe	er, Siame	se ne	twork	ks, Coi	nputer vi	ision	LO -2
6	Recut Motiv	rrent Neural l	Networks (RN ea for RNNs, R thing RNN (ES	Ns) [5 hrs] 2NN Architect							LO -2
7	Appli Class	cations of RI		inguage Mod				ing Te	ext, Mach	ine	LO -2
8	Unsu	pervised Dee	p Learning [5] nerative Adver	hrs]							LO -2
9	Deep	Reinforceme	ent learning [5 algorithms, De	hrs]							LO -3
10	Seque		Architecture Se based optimize ability					-	-	Transfer	LO -1, LO-2
Assessn	nents										
Assessn	nent								Wei	ght	Learning outcomes
Continu			ividual Assess						50% [		LO-1, LO-2
Assessn	ients (C	וחל (הא	ividual Assess	ment – 02 (T	ake home	e)		1	50% [	5 hrsl	LO-2, LO-3

Module Code	DA4481     Module Title     Spatial Data An       redits     2     Hours/Week     C     E     O     Evaluation S						ata Analyt	ics			
Credits	;	2	Ho	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA/NGPA GPA GPA GPA - 4 2.66 - 4 2.66 - 100 -								WE	DA3481	
			-	4	2.66				100	-	
Module		This module based geoin		duce geospa	tial data	scier	nce co	oncept	s with pr	actical intro	oduction to cloud
Learnii	ng Outcor	nes									
After co	ompleting	this module	e, the students		le to:						
LO-1	-		of spatial data					1.1	1 010		
LO-2		0 1	l data using da	-	•			a-base	d GIS ser	vices	
LO-3 Syllabu	s Outline	•	naking intellig	ence using g	eospanai	data					Learning Outcomes
1		ction [4 hrs] ience vs spo	] atial data scier	nce, Python s	patial de	ıta sc	ience	ecosy	vstem		LO-1
2	-		ence [8 hrs] in geospatial d	ata science,	Open soi	urce (	GIS s	oftwar	e, GeoPa	ndas	LO-2, LO-3
3			ervices [8 hrs] y, Google ear		ap visual	izatio	on				LO-2, LO-3
4	-	databases [4 5, Spatial S§									LO-2, LO-3
5			alysis [4 hrs] ons, Deploying	g spatial date	abases						LO-2, LO-3
Assessm	nents										·
Assessn	nent								Wei	ght	Learning outcomes
	Lab tes								25% [	l hrs]	LO-1, LO-2
Contin		nts (CA) Lab test - 02 25% [1 hrs]	l bral	LO-2, LO-3							
Continu Assessn	uous nents (CA	.)	test - 02 up project (Ta						50% [4		LO-2, LO-3 LO-2, LO-3

Module							l Derivativ	es			
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/N	GPA/NGPAGPALecturesLab / Tutorial stud sSelf-stud stud sCAWE2-4.65050									None	
Module	Aim: 7	This course	$\frac{2}{2}$ e aims to impar	- t fundamenta		tandi	ng of	tradał			ves
				t Tundumenta	ir unders	unun	15 01	tractat			
	g Outcon		e, the students	1 111 11							
LO-1 LO-2 LO-3	Demons in the rr Explain	strate know arkets the attribu		different type ancial deriva	es of deri tives					they are app	plied and priced
	s Outline					1		1 1			Learning Outcomes
1	Structur	re of Forw	s and Securitie eard, Futures a and Option co	nd Option m						elationship	LO-1
2			res contracts [6 sms, hedging, w	-	strategi	es					LO-1, LO-2
3		contracts [ <i>markets</i> , v	6 hrs] aluation and tr	ading strateg	vies						LO-1, LO-2, LO-3
4	•		erivatives [7 hrs	-	urities ai	nd oti	her ei	nbedd	led deriva	tives	LO-1, LO-2, LO-3
Assessm	nents										
Assessm	nent								Wei	ght	Learning outcomes
In-class test - 01								20% [1	.5 hrs]	LO-1, LO-2	
	Continuous In-class test - 02							20% [1	.5 hrs]	LO-2, LO-3	
Assessm	ients (CA		izzes, Homewo	ork, pop-Quiz	zes [Tak	e-Ho	me]		10	%	LO-1, LO-2, LO-3
Written	examina	tion (WE)	1						50% [	2 hrs]	LO-1, LO-2, LO-3
Referen											

								Stocha	stic Finance	2	
Credits		Lecture Lab Self-						uation %	Prerequisites		
GPA/N	PA/NGPAGPAs/Tutorialsstudy2-4.650						WE	None			
									50		
Module	Aim:	This modul	e aims to pro	ovide knowled	ge in the	area	of sto	chasti	c finance	and its app	lications.
Learnin	ng Outco	mes									
After co	mpleting	this module	e, the student	s should be at	ole to:						
LO-1	Recog	nize differei	nt derivative	instruments							
LO-2	Explai	in the concep	ot of arbitrag	e and arbitrag	e free pric	ing i	n the	discre	ete time-s	etting	
LO-3	Apply	skills to for	mulate conti	nuous-time sto	ochastic m	nodel	s				
LO-4	Make	use of softw	are tools to s	olve stochasti	c finance	prob	lems				
LO-5	Evalua	ate market se	ecurities usin	g continuous-	time stoch	nastic	e mod	lels			
Syllabu	s Outlin	e									Learning Outcomes
1	Introduction to Financial Calculus [8 hrs]           1         Derivative security and types of derivatives, Expectation pricing, Arbitrage pricing and Expectation versus Arbitrage								ring and	LO-1, LO2	
2		ete process [6 nial branch n		ial tree mode	l and Bind	omial	repr	esenta	tion theo	rem	LO-2, LO-4
3	Contir		s, Stochastic	calculus, Ito ruction strateg						tingale	LO-3, LO-4
4		-	urities [7 hrs nds, Forex a								LO-4, LO-5
Assessn	nents							-			
Assessn	nent								Wei	ght	Learning outcomes
Continuous In-class test – 01 (based on python)									20% [	2 hrs]	LO-1, LO-2, LO-3, LO-4
Assessm	Assessments (CA) In-class test – 02							20% [	1 hrs]	LO-3, LO-5	
		Qui	zzes/ Homey	work					10% [Tak	e Home]	LO-1, LO-2, LO-3, LO-5
Written	examin	ation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3, LO-5
Referen	ices										

Module							al Simulation	on			
Credits	5	2	He	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y	-			CA	WE	None
Module	e Aim:		1 this course is t actical problem		3.6 different	type	s of s	imula	50 tion techr	50 niques and d	levelop the ability
Learniı	ng Outco	omes	•								
			e, the students	should be abl	e to:						
LO-1	Descr	ibe statistica	l simulations r	nethods to an	alyze, de	esign,	and	solve	problems		
LO-2	Apply	y different teo	chniques to get	nerates rando	m variate	es an	d nun	nbers			
LO-3	Discu	ss simulation	n modeling tec	hniques and a	applicatio	ons					
Syllabu	ıs Outlin	ie									Learning Outcomes
1			lation [3 hrs] ulation example	es, Steps in a	simulati	on sti	ıdy				LO-1
2	Gene	ral approach	m Variates and es to generatir om variates, G	ıg random nu	mbers a			s, Gen	erating c	ontinuous	LO-2
3	Simul		ing [6 hrs] ueing system, 1 on models usin			ntory	syste	m, Ag	ent-based	l modeling,	LO-1, LO-3
4			ods for Simula validation, Boo		utation t	ests					LO-1
5	Mont	•	mulation Mode lation, Varian	0	• -	-	Exper	riment	al design	s, and	LO-1, LO-3
Assessm	nents										-
Assessm	nent								Wei	ght	Learning outcomes
Contin			class test - 01						25% [1	.5 hrs]	LO-1, LO-2
Assessn	nents (C	(A) Lab	test – 01						25% [1	.5 hrs]	LO-3
Writter	ı examiı	nation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3
Referer											

Module	2 Hours/Week C E O Evaluation						abase Man	agement			
Credits		2	Hours/Week     C     E     O     Evaluation       Lab /     Self-     Image: Control of the second						ation %	Prerequisites	
GPA/N	GPA	GPA	Lectures	Lab / Tutorial s 2	Self- stud y 3.6				CA 100	WE	DA2311
Module	Aim:	This modul organization	-	lore advance	d databa	ise sy	stem	s man	agement	and their r	ole in a business
Learnin	g Outco	omes									
After co	mpleting	g this module	, the students	should be abl	e to:						
LO-1	Expla	in techniques	s to optimize d	atabases and	queries						
LO-2	Apply	r transaction	management c	oncepts for d	atabases						
LO-3	Discu	ss the use of	advanced data	storage and	manipula	ation	techr	iques	for comp	lex busines	s problems
Syllabus	s Outlin	e									Learning Outcomes
1	· ·	nization [4 hr pase optimiza	s] tion, query op	timization, in	dexing						LO-1
2		-	gement in Data ions, atomicity			n and	d dur	ability	,		LO-2
3		L Databases	[6 hrs] abases, object	databases							LO-3
4	-	ata [6 hrs] g <i>e, analysis a</i>	and processing	of complex a	und large	e data	ı sets				LO-3, LO-3
5		buted Databa cation, transp	ises [6 hrs] Darency, consi	stency							LO-3
Assessm	nents										
Assessm	nent								Wei	ght	Learning outcomes
	Lab test – 01								25% [	1 hrs]	LO-1
Continu			test - 02						25% [	1 hrs]	LO-1, LO-2
Assessm	ents (C	A) Indi	vidual Assess	ment – 01 (T	ake hom	e)			50% [	3 hrs]	LO-1, LO-2
		Indi	vidual Assess	ment - 02 (T	ake hom	e)			50% [	3 hrs]	LO-2, LO-3
Referen	ces										

Module Code	b D	A4621	Ν	Iodule Title				Big	Data Tec	hnology Pri	nciples
Credits	;	2	E	Iours/Week		С	Е	0	Evalı	uation %	Prerequisites
GPA/N	GPA	GPA	Lecture s	Lab / Tutorials 4	Self- stud y 2.6				<b>CA</b>	WE	None
Module			e aims to p		amental				f big dat	ta technolog	y and analytics plications.
Learni	ng Outcome	s									
			e, the student	s should be ab	le to:						
LO-1	Explain th	e need fo	or the big dat	a technology a	ind analy	vtics					
LO-2	Demonstra	ate the ur	nderstanding	of appropriate	big data	a com	putin	g syste	ems inclu	iding NoSQ	L databases
LO-3	Develop b	usiness i	ntelligence u	sing big data t	echnolog	gy ap	plicat	ions			
Syllabu	s Outline										Learning Outcomes
1	Drivers of	Big Date		s [3 hrs] g data? And ka Systems, Tech							LO-1
2	Big data su Peculiarity clustering			big data stri	ucture, H	Princi	ples	of blo	om filter	, MinHash	LO-2
3	Warehous	on to D e Design	W, OLTP v s & Concept	s DW (OLAF s (Dimensiona and Related C	al Data I	Mode					LO-2, LO-3
4		relation	al database	systems (SQ Data Models- I							LO-2
5		-	ystems [3 hr stems, HDFS	s] 5 and YARN, M	1apRedu	ce Al	goriti	hm, Hi	ive		LO-2
6		on to Spa	ics with Spar urk, Spark RL	k [3 hrs] DDs, Spark Co	mponent	$s - S_l$	oarkS	QL, M	Lib, Gra	phX, Spark	LO-2
7	Hadoop e	cocluste		oplications [4] <i>ce method</i> , <b>C</b>		arall	el co	mputir	ıg, Data	cleaning,	LO-2, LO-3
8	-	atabase, l	-	computing ar base, Cloud da				house	Hive, Spo	ark, Stream	LO-2, LO-3
9	Cluster an	alysis, A	a analytics [3 ssociation a der system	8 hrs] nalysis, Big da	ata dime	nsion	ality	reduci	tion, Soci	ial network	LO-2, LO-3
Assessr	nents										
Assessr	nent								Wei	ight	Learning outcomes
		Lab	test - 01						30% [	1 hrs]	LO-1, LO-2
Continuous Accessments (CA) Design project (Take home) 50%			500/ F	21 1	LO-1, LO-2,						
	nents (CA)	Des	ign project (	l'ake home)					30% [	3 hrs]	LO-3

Module	Code	DA4621	Μ	odule Title					Project	Managemen	t
Credits		2	Н	ours/Week		С	Е	0	Evalı	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures 2	Lab / Tutorial s	Self- stud y 4.6	_			<b>CA</b> 50	<b>WE</b> 50	None
Module					he partic	ipant	s to e	nable			key decisions in
Learnir	ng Outcor		ingement in un	orgunization							
			e, the students	should be abl	e to:						
LO-1		nize the pro ling the pro	ject manageme oject.	ent process fr	om initia	tion	to clo	sing,	including	planning, m	onitoring and
LO-2	the tool	ls and meth	allenges faced ods applicable	during the co	ourse of	a pro	ject.	-		-	
LO-3		s project m quality.	anagement tasl	ts including p	olanning	for ri	sks, e	estima	ting time	& costs, pro	ocurement and
Syllabu	s Outline										Learning Outcomes
1		-	roject Manage the Project 'Lij		-			Termi	nology		LO-1
2	Strateg Objecti Costing	ic and O ives, Delive g, Scheduli	& Planning [61 perations Pla rables, Proces ing, Presentati unagement Soft	nning Fram s Models, Sc on and Out	oping, Be	asic I	Feasi	bility I	Models, F	Resourcing,	LO-1, LO-2
3		-	ntrol [6 hrs] e cycle, Progre	ess evaluation	ı, Report	ing a	nd C	orrect	ive actior	ıs	LO-2, LO-3
4	Comm	unication &	c Organization	[2 hrs]							LO-2
5			assurance, qu	uality measur	cements	& pro	ocedı	ıres, Ç	Quality m	anagement	LO-3
6	Overes	rization, Ide		Estimates rioritizing ris		· ·		imatin sk exp	0		LO-3
Assessn	nents							-			
Assessn	nent								Wei	ght	Learning outcomes
Continu			class test - 01						25% [	1 hrs]	LO-1, LO-2
Assessn	nents (CA	In-	class test - 02						25% [	1 hrs]	LO-2, LO-3
Written	examina	tion (WE)							50% (	2 hrs)	LO-1, LO-2
Referen	005										

Module							cal Analysis	5			
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA 50	WE	None
Module	Aim·	This cours	2 e provides the p	-	4.6 technical	anal	vsis a	nd its	50	50	
				, incipies of		unu	y 515 C	ind no	uppliculi		
Learnin	0		e, the students	should be abl	e to:						
LO-1			tools and techn			alvsi	s				
LO-1 LO-2			Analysis when	-		-	0				
Syllabus				8	8						Learning Outcomes
1		ary, seconda	nnical Analysis ary, short-term a					ownwc	ırd trend,	support &	LO -1
2		Concept of Moving Averages [5 hrs] Simple, Exponential									LO -1, LO -2
3	Rever	ns [4 hrs] sals & shor within a trer	t-term patterns 1d,	, common co	andlestic	k pat	terns	and I	now to us	e interpret	LO -1, LO -2
4		Principle [4 operation o	4 hrs] f the Wave prin	ciple, Label	waves us	ing s	tanda	ırd Eli	liot Wave	notation	LO -1, LO -2
5	Major	entum in pri	hrs] & oscillators d ce action, appl								LO -1, LO -2
6			nships for Stoc Golden ratio an	-		stock	k pric	e patte	ern analy	sis	LO -1, LO -2
Assessm	ients										1
Assessm	ent								Wei	ght	Learning outcomes
Continu			dividual Assess	ment – 01 (T	ake hom	e)			25% [	4 hrs]	LO-1, LO-2
Assessm	ents (C	A) Inc	lividual Assess	ment - 02 (T	ake hom	e)			25% [	4 hrs]	LO-1, LO-2
Written	examir	nation (WE)	)						50% [	2 hrs]	LO-1, LO-2
Referen	ces										

Module	Code     DA4441     Module Title     Financial Risk Ma       2     Hours/Week     C     E     O     Evaluation							isk Manage	ement		
Credits		Lab / Self-						ation %	Prerequisites		
GPA/N	PA/NGPAGPALecturesTutorial sstud yCAWE2-4.65050										None
Module	Aim:	This course		de the concep		esses	and te	echniq			nent.
Learnin	ng Outco	mes									
			, the students	should be abl	e to:						
LO-1	Explai	n the nature	of risk manag	ement practic	es in the	wor	ld of l	busine	SS		
LO-2	Make	use of tools	and techniques	s required for	financia	ıl risk	asse	ssmen	t and eva	luations	
LO-3	Formu	late risk ma	nagement repo	orting							
Syllabu	s Outlin	e									Learning Outcomes
1	Risk F	inance Theo		LO-1							
2	Basic	Basic Risk Management Instruments [6 hrs]									
3	Manag	ging Market	Risk [4 hrs]								LO-2, LO-3
4	Value	at-Risk [6 h	rs]								LO-2
5	Credit	Risk [4 hrs]									LO-2, LO-3
6	Limita	tions of Risl	x Modeling [4	hrs]							LO-2, LO-3
Assessn	nents										
Assessn	nent								Wei	ght	Learning outcomes
	ntinuous In-class test - 01								25% [1	.5 hrs]	LO-1
Assessm	nents (Ca	A) Lab	Test-01						25% [1	.5 hrs]	LO-2
Written	examin	ation (WE)							50% [	2 hrs]	LO-1, LO-2, LO-3
Referen	ces										

Module							Programm	ning			
Credits		2	Но	ours/Week		С	Е	0	Evalu	ation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y				CA	WE	DA3461
			2	-	4.6				100	-	
Module	Aim:		provides an i er uncertainty		to model	ling	and s	olutio	n method	ls for prob	lems of decision-
Learning	g Outco	mes									
After cor	npleting	this module.	, the students	should be abl	e to:						
LO-1	Model	uncertaintie	s in business c	lecision maki	ing						
LO-2	Assess	the impact of	of uncertaintie	s on the deci	sion-mak	ting p	oroce	SS			
LO-3	Evalua	te difficultie	s of incorpora	ting uncertai	nties into	o opti	miza	tion m	odels		
Syllabus	Outline	e									Learning Outcomes
1	Introdu	introduction to stochastic programming models [6 hrs]									LO-1
2	Use of	sensitivity a	nalysis [6 hrs]								LO-2, LO-3
3	Sensiti	vity analysis	and uncertair	ty [6 hrs]							LO-2, LO-3
4	Multi-	stage models	and scenario	trees [6 hrs]							LO-2, LO-3
5	Stocha	stic program	ming algorith	ms [6 hrs]							LO-2, LO-3
Assessm	ents										
Assessm	ent								Wei	ght	Learning outcomes
Continu	ous	Indi	vidual Assess	ment (Take h	ome)				50% [4	4 hrs]	LO-1, LO-2
Assessm	ents (CA	A) Grou	up Assessmen	t (Take home	e, present	tation	)		50% (	4 hrs]	LO-2, LO-3
Reference	POE										

LO-1 I LO-2 I LO-3 Z Syllabus O 1 S 2 Z i	im: The ai and in Outcomes pleting this m Demonstrate Describe the Apply quality Outline Introduction Quality impre- Statistical me Statistical Pro-	A Lectures 2 im of this course is provement by apply odule, the students a the understanding of principles of quality y control techniques and overview of state ovement in the mode without for quality co- process Control [6 hrs	ying them in should be abl of the necessi a control anal to improve p tistical qualit ern business omtrol and im	a variety e to: ty of usin ysis to in processes y contro environn	ng qu nprov s in ir l [4 h <i>vent</i> ,	ality ality we the idustr	contro e quali ial en	CA 50 tools and ol in indus ty of the i	tries ndustrial p			
Module Ai Learning ( After comp LO-1 I LO-2 I LO-3 A Syllabus O 1 ( Syllabus O 2 i i	im: The ai and in Outcomes pleting this m Demonstrate Describe the Apply quality Outline Introduction Quality impre- Statistical me Statistical Pro-	A 2 im of this course is inprovement by apply odule, the students is the understanding of principles of quality y control techniques and overview of state ovement in the mode withods for quality co- posess Control [6 hrs	Tutorial s - to familiarize ying them in should be abl of the necessi control anal to improve p tistical qualit <i>ern business o</i> <i>mtrol and im</i>	stud y 4.6 e student a variety e to: ty of usin ysis to in processes y contro <i>environm</i>	ng qu nprov s in ir l [4 h <i>vent</i> ,	ality ality we the idustr	contro e quali ial en	50 tools and ol in indus ty of the i	50 methods f tries ndustrial p	for quality contr rocesses		
Learning ( After comp LO-1 I LO-2 I LO-3 2 Syllabus O 1 ( Syllabus O 2 2 i	and in         Outcomes         pleting this m         Demonstrate         Describe the         Apply quality         Outline         Introduction         Quality impression         Statistical me         Statistical Protect         The magnific	im of this course is provement by appl- odule, the students s the understanding o principles of quality y control techniques and overview of state ovement in the mode withods for quality co- process Control [6 hrs	ying them in should be abl of the necessi a control anal to improve p tistical qualit ern business omtrol and im	e student a variety e to: ty of usin ysis to in processes y contro environn	ng qu nprov s in ir l [4 h <i>vent</i> ,	ality ality we the idustr	contro e quali ial en	tools and ol in indus ty of the i	methods f tries ndustrial p	rocesses		
Learning ( After comp LO-1 I LO-2 I LO-3 2 Syllabus O 1 ( Syllabus O 2 2 i	and in         Outcomes         pleting this m         Demonstrate         Describe the         Apply quality         Outline         Introduction         Quality impression         Statistical me         Statistical Protect         The magnific	and overview of state overwent in the mode ethods for quality co press Control [6 hrs	ying them in should be abl of the necessi a control anal to improve p tistical qualit ern business omtrol and im	a variety e to: ty of usin ysis to in processes y contro environn	ng qu nprov s in ir l [4 h <i>vent</i> ,	ality ality we the idustr	contro e quali ial en	ol in indus ty of the i	tries ndustrial p	rocesses		
After compLO-1ILO-2ILO-3ISyllabusI1 $\frac{1}{2}$ 2 $\frac{1}{2}$ $i$	pleting this m Demonstrate Describe the Apply quality <b>Dutline</b> Introduction <i>Quality imprestatistical me</i> Statistical Pro <i>The magnific</i>	the understanding o principles of quality v control techniques and overview of stat ovement in the mode ethods for quality co pocess Control [6 hrs	of the necessi y control anal to improve p tistical qualit tern business omtrol and im	ty of usin ysis to in processes y contro environn	mprov s in ir l [4 h <i>vent</i> ,	ve the idustr	e quali ial en	ty of the i	ndustrial p	Learning		
After compLO-1ILO-2ILO-3ISyllabusI1 $\frac{1}{2}$ 2 $\frac{1}{2}$ $i$	pleting this m Demonstrate Describe the Apply quality <b>Dutline</b> Introduction <i>Quality imprestatistical me</i> Statistical Pro <i>The magnific</i>	the understanding o principles of quality v control techniques and overview of stat ovement in the mode ethods for quality co pocess Control [6 hrs	of the necessi y control anal to improve p tistical qualit tern business omtrol and im	ty of usin ysis to in processes y contro environn	mprov s in ir l [4 h <i>vent</i> ,	ve the idustr	e quali ial en	ty of the i	ndustrial p	Learning		
$     \begin{array}{c}       IO-1 \\       IO-2 \\       IO-3 \\       \frac{1}{2}     \end{array} $ Syllabus O $     \begin{array}{c}       1 \\       1 \\       2 \\       2 \\       i \\       i   \end{array} $	Describe the Apply quality <b>Dutline</b> Introduction <i>Quality improstatistical me</i> Statistical Pro <i>The magnific</i>	principles of quality y control techniques and overview of state ovement in the mode whods for quality co pocess Control [6 hrs	v control anal to improve p tistical qualit ern business ontrol and im	ysis to in processes y contro environn	mprov s in ir l [4 h <i>vent</i> ,	ve the idustr	e quali ial en	ty of the i	ndustrial p	Learning		
$     \begin{array}{c}       IO-1 \\       IO-2 \\       IO-3 \\       \frac{1}{2}     \end{array} $ Syllabus O $     \begin{array}{c}       1 \\       1 \\       2 \\       2 \\       i \\       i   \end{array} $	Describe the Apply quality <b>Dutline</b> Introduction <i>Quality improstatistical me</i> Statistical Pro <i>The magnific</i>	principles of quality y control techniques and overview of state ovement in the mode whods for quality co pocess Control [6 hrs	v control anal to improve p tistical qualit ern business ontrol and im	ysis to in processes y contro environn	mprov s in ir l [4 h <i>vent</i> ,	ve the idustr	e quali ial en	ty of the i	ndustrial p	Learning		
$\frac{10-2}{1}$ Syllabus O $1$ $2$ $2$	Apply quality Dutline Introduction Quality impr Statistical me Statistical Pro The magnific	and overview of stat ovement in the mode othods for quality co occess Control [6 hrs	to improve p tistical qualit ern business ontrol and im	y control	in ir [4 h	rs]	ial en	-	-	Learning		
Syllabus O	Dutline Introduction Quality impr Statistical me Statistical Pro The magnific	and overview of stat ovement in the mode othods for quality co pocess Control [6 hrs	tistical qualit ern business ontrol and im	y contro	l [4 h 1ent,	rs]		vironment	S			
	Introduction Quality impr Statistical me Statistical Pro The magnific	ovement in the mode ethods for quality co ocess Control [6 hrs	ern business ontrol and im	environn	ıent,							
$ \begin{array}{c c} 1 & \underline{0} \\ \underline{0} \\ 2 & \underline{1} \\ i \\ \end{array} $	<i>Quality impress Statistical me</i> Statistical Pre <i>The magnific</i>	ovement in the mode ethods for quality co ocess Control [6 hrs	ern business ontrol and im	environn	ıent,					Outcomes		
$ \begin{array}{c c} 1 & \underline{0} \\ \underline{0} \\ 2 & \underline{1} \\ i \\ \end{array} $	<i>Quality impress Statistical me</i> Statistical Pre <i>The magnific</i>	ovement in the mode ethods for quality co ocess Control [6 hrs	ern business ontrol and im	environn	ıent,							
	Statistical Pro The magnific	ocess Control [6 hrs		proveme		Introduction and overview of statistical quality control [4 hrs] Quality improvement in the modern business environment, Overview of DMAIC proce						
2 7 i	The magnific		1	Statistical methods for quality control and improvement.								
i												
		ent seven, control cl	harts and lim	its, choi	ce of	contr	ol lim	its and		LO-1, LO-2		
		<i>n of control charts.</i> ts for Variables [6 h	rel									
		ts for sample mean (		) and va	rian	~e (s <sup>2</sup>	) Fst	imatino ni	rocess			
		hanging sample mean (								LO-2, LO-3		
	sample size, (		, nverage ra	n iengin,	con	11010	110115		ioic			
		ts for Attribute Data	a [6 hrs]									
		conforming control		art), Con	trol d	charts	s for n	onconform	nities (c-	LO-2, LO-3		
6	chart, and u-	chart (per-unit char	t)), Guideli									
		Sampling for Attribu										
2		ultiple sampling pla	n, Acceptanc	e numbe	r, Ac	cepta	ble qu	uality leve	l, Lot	LO-2, LO-3		
t	tolerance per	cent defective										
6 (	Overview of	six-sigma [3 hrs]								LO-3		
Assessmen	· · · · · · · · · · · · · · · · · · ·											
Assessmen	nt							Weig	ght	Learning outcomes		
Continuou	15	In-class test - 01						25% []	l hrs]	LO-1, LO-2		
Assessmen	nts (CA)	Lab test - 02						25% [1	l hrs]	LO-3		
Written ex	xamination (	WE)						50% [2	2 hrs]	LO-1, LO-2 LO-3		
References	S											

Module	Code	DA4641	M	odule Title					Introduct	ion to FinT	ech
Credits		2	Н	ours/Week		С	Е	0	Evalu	uation %	Prerequisites
GPA/N	GPA	GPA	Lectures 2	Lab / Tutorial s	Self- stud y				CA 50	<b>WE</b> 50	None
Module	Aim:	The modul organization	e aims to provid	- de an understa	4.6 anding of	how	the F	FinTec			used to transform
Learnir	ng Outco	omes									
After co			e, the students								
LO-1		•	Tech innovation		al Servic	es In	lustr	y			
LO-2	Expla	in emerging	applications in	FinTech							
LO-3	Discu	ss the risks	and challenges	of using Fin7	Tech						-
Syllabu	s Outlin	e									Learning Outcomes
1	Introd	luction & O	verview [4 hrs]								LO-1
2		ch Innovatio	ons [6 hrs] Smart contrac	ts, Stablecoii	ıs & Ente	erpri:	se Blo	ockcha	uin,		LO-2
3	ML a	nd AI Strate	gies [6 hrs]								LO-2, LO-3
4	Alterr	native Lendi	ng and Paymen	t Platforms [	6 hrs]						LO-2, LO-3
5	Oppo	rtunities, Ri	sk, Challenges	& Regulation	ıs [6 hrs]						LO-3
Assessn	nents										
Assessn	nent								We	ight	Learning outcomes
Continu	ious	Ca	se study – 01						25% [	1 hrs]	LO-1, LO-2, LO3
Assessn	nents (C	A) Ca	se study – 02						25% [	1 hrs]	LO-1, LO-2, LO-3
Written	ı examir	nation (WE)	)						50% [	[2 hrs]	LO-1, LO-2, LO-3
Referen	ices										

Module	Code	DA4901	M	odule Title					Analyti	cs Practicur	n
Credits		8	Н	ours/Week		С	Е	0	Evalı	ation %	Prerequisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutorial s	Self- stud y 400	_			CA 100	WE	None
Module	Aim:				ts to de				theoretic		tical knowledge
Learnin	g Outc	omes									
After cor	mpletin	g this modul	e, the students	should be abl	e to:						
LO-1	Form	ulate the bus	iness problem	into a viable	project p	ropos	sal un	der ir	ndividual	supervision	
LO-2			terature and cr h methods app							duate the su	itability of
LO-3	Reco	mmend cours	ses of action by	v debating the	e effectiv	eness	s of tł	ne pro	posed bus	siness soluti	on
LO-4	Defer	nd project res	sults to peers a	nd supervisor	s						
Syllabus	s Outlir	ne									Learning Outcomes
1	Probl	em identifica	ation & Propos	al developme	ent						LO -1
2	Resea	arch methodo	ology and Rese	arch design							LO -2
3	Analy	sis, discussi	on and recomn	nendations							LO -2, LO -3
4	Proje	ct presentatio	on								LO-4
Assessm	ents										. <b>.</b>
Assessm	ent								Wei	ght	Learning outcomes
Continu	ous	Pro	posal presenta	tion					20	%	LO-1
Assessm	ents (C	(A) Pul	olishable resea	rch paper / ar	ticle				30	%	LO-2, LO-3
		Re	search Report,	Oral presenta	ation and	viva			50	%	LO-2, LO-3, LO-4

Module	Code	DA4801	Modul	e Title				In	ternship	
Credits		6	Hours	/Week	С	Е	0	Eval	uation %	Prerequisites
GPA/NO	ЭРА	NGPA	Lectures	Training				CA	WE	None
01 A/IW	JIA		-	600				100	-	
Module	Aim:		e aims to enable the aims to enable the second s							a of business and
Learnin	g Outco	mes								
After co	mpleting	this module	, the students shou	ld be able to:						
LO-1	Compa	are academic	and industrial env	vironments						
LO-2	Relate	the knowled	lge gained via train	ning to the R & I	D proj	ect				
LO-3	Apprai	se professio	nal ethics and busi	ness practices						
LO-4	Discus	s the finding	s in a training rep	ort						
	s Outline	-								Learning
•	Inducti	ion								Outcomes
1	This is The st trainin	an initial pe udents shou g. He/She s	riod to help the stu ld meet his/her M should also receiv es and the terms ar	lentor to discus ve information	s the about	conte	nts ar trainir	nd the of	bjectives of	LO -1
2	In a la of depo membe	artments. Un er of a tear	ation, this should i ader these circum n in the organiz dministration sect	stances, the stud ation. The stud	lent m lent si	ay ev hould	ventua	lly be w	orking as a	LO – 1, LO -
3	During	her future	, the student shou employment. It s							LO -2, LO -3
4	Directe The ma studen special be enc	ed Objective ajor part of t intends to lisation in w couraged to	Training the training should follow after the tr hich the student w work on a real to establish interess	aining program ill be graduating project and be	(activ g in). A giver	vities At thi: 1 inci	shoul s stage reasin	d be rele e, the stu	evant to the dent should	LO – 3, LO-4
Assessm	ents									
Assessm	ent							We	ight	Learning outcomes
Continu	ous	Trai	ning report					50	)%	LO-1, LO-2
	ents (CA	() Fina	al presentation and	viva				50	)%	LO-3, LO-4
	ces									

## MODULES OFFERED BY THE DEPARTMENT OF INDUSTRIAL MANAGEMENT

Module	Code IM164	41	Modu	le Title	Mi	croec	onom	ics		
Credits	2		Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO	GPA GP	٨	Lectures	Lab / Tutes				CA	WE	None
GI A/IW		A	2					50	50	None
Module			ntroductory cours		s the	cone	cepts,	terminolo	ogies and m	ethodologies of
	g Outcomes									
			the students shou				c			
LO-1	-		conomics concept y and grasp basic	-						
LO-2	elasticity and			ingredients of m	arket	mecr	lanisn	i în terms	of supply, d	emand,
LO-3	explain production, costs, revenue and profit maximization including consumer and p								and produce	er behavior.
LO-4	discuss the efficiency and equity implications of various market structures.							1	1	
Syllabus	Outline								Learning Outcomes	
	Introduction	Introduction to microeconomic concepts and tools of analysis [3 Hrs]								
1	Introduction to microeconomic concepts and tools of analysis [3 Hrs] Microeconomics concepts and tools.							LO-1		
	Production a	analys	is and consumer	and producer b	ehavi	our [	6 Hrs	]		
2	Basic concep on equilibriu		emand, supply an	nd equilibrium, In	<i>ipact</i>	of ch	ange i	n demand	l or supply	LO-1, LO-2
	Costs, reven	ue and	l profits maximiz	zation [7 Hrs]						
3	concepts for	markei	n consumer beha ting decision mak	ing.	of co	nsum	er bei	havior th	eories and	LO-3
4			and analytical to market structures,		on fir	m hei	havior	r market	structures	LO-4
4	in real world		narket structures,	Effect of marker	Jirjir	n Der	uviou	и, таке	siruciures	L0-4
	Pricing and price discrimination [6 Hrs]									
5										LO-4
	Market inform		, Market Failures		overn	iment	t			LO-4
5 Assessm	Market inform				overr	imeni	<u>+</u>			
	Market informents				overn	imeni	<u>+</u>	Wei	ght	LO-4 Learning outcomes
Assessm	Market inform nents nent	mation		s and the role of g	overr	imeni	•			Learning
Assessm Assessm Continu	Market inform nents nent	nation	, Market Failures	s and the role of g	overr	imeni		Weig 509		Learning outcomes

Module Code	IM1351	Modu	le Title	Int	roduc	ction to	o Accoun	ting	
Credits	3	Hours	s/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NGPA	GPA	Lectures	Lab / Tutes				CA	WE	None
GI A/IIGI A	UIA	2	2				50	50	None
Module Aim:		alle aims to provide lating to the prepara							
Learning Outco									
		e, the students shou							
-		pts of financial repo	-						
		eporting of account concepts, principle	C			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	tian		
		statements for prof						on.	
Syllabus Outlin	•			- <b>F</b>			0		Learning Outcomes
Accou	Accounting information in its decision-making context [9 Hrs]								
	History of accounting, Accounting environment, Double entry system, Ledger system and trial balance, Discuss accounting concepts and Accounting equations								
trial b	trial balance, Discuss accounting concepts and Accounting equations								
		-			-	-			LO-1, LO-4
	LKAS 01, LKAS 02, LKAS 16, Preparing the Financial Statement of private and list companies								
-	companies Reporting and interpreting cash flows [6 Hrs]								LO-4
	<b>Reporting and interpreting cash flows [6 Hrs]</b> <i>LKAS 07, Identify the operational, investing and financial activities, Preparing the cas flows on direct and indirect methods and interpretation</i>								
		nanufacturing con		т					
		ssifications, Analyz		ing O	H cos	st. Cal	culating i	he product	LO-3
cost, H	Preparing m	anufacturing accou	unts and statemen				0	1	
		ncomplete records							
		complete records		mation	n, Ace	countii	ng equati	on method	LO-2
	and final accounts preparation method         Accounting in non-profit organizations [3 Hrs]         Types of non-profit organizations, Subscription account, Income and expenses account							es account,	LO-4
	Types of non-profit organizations, Subscription account, Income and expenses accound Cash receipts and payments account								
	Cash receipts and payments account Cash flows and financial statement analysis [7 Hrs] Interpreting the financial statements, Horizontal and vertical analysis, Ratio analysis, Ne								LO-1, LO-4
	present value and payback period.							uuysis, ivei	LO-1, LO-4
Assessments									
Assessment									Learning outcomes
Continuous In-class tests [2 Hrs] 20% LO-1								LO-1, LO-2,	
Assessments (CA) Individual assignment 30% LO-3							LO-3		
Written examin	ritten examination (WE) Individual assignment 30% LO-3 50% [3 Hrs] LO-1, LO-2, LO-3, LO-4								
	· · ·						L	-	LU-3, LO-4

Module Co	de IM153	31	Modul	le Title	Pri	ncipl	es of I	Managem	ent	
Credits	2		Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NGP/	A GP	Δ	Lectures	Lab / Tutes				CA	WE	None
OF A/HOF /		/ <b>1</b>	2					50	50	None
Module Aiı			his module is to in eoretical and cont						nd provide a	n understanding
Learning C										
			the students shou							
	•		f management the							
		•	nt principles and	•						
LO-3 d	iscuss the ro	ole of r	nanagement in ad	dressing contemp	orary	/ chal	llenge	s in organ	izations.	Learning
Syllabus O	utline									Outcomes
1 II	Introduction to management [3 Hrs] Introduction to organizations and management discipline, Evolution of management thought							LO-1		
2 0	8	al En	<b>vironment and d</b> vironment and co n solving	8		-	lity, M	lanageria	al decision	LO-1, LO-2
3 II	-	to "Pl	agement function anning" as a fun ns		nent	and i	its rela	ationship	with other	LO-2, LO-3
4 <i>I o</i>	ntroduction	to "	s culture [5 Hrs] organizing" as ucture in influen							LO-2, LO-3
5 <b>L</b>	eading peo	to '	<b>Hrs]</b> 'leading", "mot	ivation" and "	comn	nunic	ation'	' as fu	nctions of	LO-2, LO-3
6 0	Organization	nal co	ntrol [3 Hrs] ntrolling". Behav	ioral implication	s con	trol				LO-2, LO-3
7 0	Introduction to "controlling", Behavioral implications control Contemporary management practices [3 Hrs] New trends in management and contemporary challenges in management								LO-1, LO-2, LO-3	
Assessment										
Assessment	sment Weight							ght	Learning outcomes	
Continuous Assessment			ass/Mid-term test p assignments	20% [ <b>1 Hr</b> ] 30%				50	%	LO-1, LO-2, LO-3
Written exa	ssments (CA)         Group assignments         50%         LO-3           tten examination (WE)         50% [2 Hrs]         LO-1, LO-2, LO-3									

Module C	Code IM1	421	Modu	le Title	Ma	arketi	ng Ma	nagemen	t	
Credits	2	2	Hours	s/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NGI	PA GI	PA	Lectures	Lab / Tutes				CA	WE	IM1531
0110100			2					50	50	1011551
Module A				n introduction to l s in the global ma		mark	eting o	concepts	to understan	d the factors that
	Outcomes	1.1		111 11 /						
			the students show erstanding of mar	rketing concepts a	and m	arket	ing or	ientation	S.	
			-	oplication in diffe			-			
LO-3	explain the p	process	of product develo	opment, brand ma	nage	ment.				
				i's decision-makin	ng pro	ocess	and co	ommon p	ricing practi	ces and evaluate
			distribution and arketing commun							
Syllabus (								Learning		
-	Principles o	f mark	eting managem	ent [4 Hrs]						Outcomes
1	Principles of marketing management [4 Hrs] Basic concepts of marketing management and its applications							LO-1, LO-3		
2	Basic concepts of marketing management and its applications Paradigms of marketing [2 Hrs] History and philosophies of marketing management								LO-2	
2	History and	philosc	phies of marketir	ng management						LO-2
3			-	ng planning [2H1 fication and strate		lanni	ng for	marketin	ng	LO-2, LO-3
	Customer-d	lriven 1	narketing strate	gy (STP) [4 Hrs]						
4	Segmenting	bases, S	Segmenting, Targ	eting, Differentiat	ing a	nd po	sitioni	ng the op	portunities	LO-1, LO-2
<u> </u>	Marketing									
_	The importa decision mai		information, Hov	v to analyse and	distri	bute	inform	ation for	• marketing	LO-3
			ımer behaviour	[4 Hrs]						
					ecisio	on bei	haviou	r, Applic	ation of the	LO-2
	Identify consumer market, Influencing factors, Buyer decision behaviour, Application of concepts in Sri Lankan and global markets Marketing mix strategies [9 Hrs]									
	Product and brand strategies, Pricing strategies, Marketing communication strategies a distribution strategies						ategies and	LO-4, LO-5		
Assessme										
Assessme	nt							Wei	ght	Learning outcomes
Continuo	5.1%					%	LO-1, LO-2,			
Assessme	nts (CA)	Grou	ıp + Individual as	ssignment 30%			_	20		LO-3, LO-4 LO-1, LO-2,
Written e	n examination (WE) 50% [2 Hrs]					2 Hrs]	LO-3, LO-4,			
										LO-5

Module	Code IM	[1631	Module	e Title	Ma	acroed	conom	nics		
Credits		2	Hours/	Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO		<b>BPA</b>	Lectures	Lab / Tutes				CA	WE	IM1641
GFA/NO		-	2					50	50	
Module	Aim: phe	nomena	of this course is to such as inflation, owth and stability.	unemployment,						
	g Outcomes									
LO-1 LO-2	explain the unemployn analyse the	basic m nent. real ecc	the students shoul acroeconomics con nomy by applying	meepts such as na macro models.						dels and
LO-3	discuss the	causes a	and consequences of	of business cycle	s and	llong	-term	economie	c growth.	
Syllabus	Outline							Learning Outcomes		
1	Introduction to Macroeconomics [4 Hrs] Science and data of macroeconomics, Determinants, distribution and equilibrium national income accounting and the related various concepts and measurements.								LO-1	
2	IS-LM mod	del and	d and Supply & I categories of inflo acro-economic con	ntion and unemp	-	•	-	-	lationships	LO-1, LO-2
3	0		erest rate regimes regimes, Nominal				-	ants		LO-2, LO-3
4	Identificati	on of	<b>cal policies [4 Hrs</b> various compone plications for grow	- nts of monetar				policies	and their	LO-2, LO-3
5	Balance of Payments, External Trade and development [5 Hrs] Basic of BoP accounts and its macroeconomic importance and relationships with other macro variables.						with other	LO-2, LO-3		
Assessm	ments									
Assessm	ent							Wei	ght	Learning outcomes
Continu Assessm	ous ents (CA)		lass test/quiz ort and Presentation	20% [ <b>1 H</b> on 30%	Ir]			50	%	LO-1, LO-2, LO-3
Written	examination							50% [2	2 Hrs]	LO-1, LO-2, LO-3

Module	Code IM	1261	Modu	le Title	Fu	ndam	entals	of Financ	ce	
Credits		2	Hours	s/Week	С	Е	0	Evalu	ation %	Pre– requisites
		א תר	Lectures	Lab / Tutes				CA	WE	Nama
GPA/NO	JPA (	GPA	2	0				50	50	None
Module	Aim: Thi	s course	aims to introduce	fundamentals of	finan	ce.				
Learnin	g Outcomes									
After con LO-1 LO-2 LO-3	identify the apply the t	e role and ime valu	, the students show d the significance e of money conce nent options base	of finance for co	-	te, pu	blic aı	nd person	al decision 1	naking.
Syllabus	s Outline									Learning Outcomes
1	Introduction [2 Hrs] Introduction to finance, Financial system, Role of a finance manager								LO -1	
2	Time Value of money [10 Hrs]           Introduction, Present value, Future value, Annuities, Perpetuities, Amortization schedu							schedules	LO -2	
3		risk an	<b>6 Hrs]</b> d returns, Expec tion to two asset							LO -3
4			narkets and inter Financial institut	-	-					LO-1
5			<b>nt Analysis [4 H</b> rizontal analysis,	-						LO-1
6	<b>Personal Finance [2 Hrs]</b> Budgeting, taxes, making personal finance decisions (Buying a car, Getting a credit ca Selecting a checking and deposit accounts						redit card,	LO-1, LO-3		
Assessm	ments									
Assessm	ment Weight							ght	Learning outcomes	
	ntinuous Presentation 20%							%	LO-1	
Assessm	Bessments (CA)         Quiz [2 Hrs]         30%						%	LO-2, LO-3		
Written	ments (CA)         Quiz [2 Hrs]         30%           n examination (WE)         50% [2 Hrs]							LO-1, LO-2, LO-3		

Module	Code II	M2211	Modul	e Title	Fir	nancia	al Man	agement		
Credits		3	Hours	/Week	С	Е	0	Evalua	ation %	Pre-requisites
GPA/NG	<b>FPA</b>	GPA	Lectures	Lab / Tutes				CA	WE	IM1261
0110110	-	_	2	2				50	50	
Module			of this unit is to rough efficient fi			ling o	of how	organiza	ations can	be managed more
	g Outcome		41	14 5 - 51- 4						
LO-1			the students shout the decision-maki		ofat	finan	cial ma	anager.		
LO-2		-	ance of the conce	-				-	ecisions.	
LO-3	apply fina	ance princ	iples to the main o	categories of corp	orate	fina	ncial d	ecisions.		1
Syllabus	Outline									Learning Outcomes
	Introduc	tion to fin	ance and financi	al environment	[2 Hı	rs]				
1		ivestment,	t and not-for-proj financing and di arket							LO -1
2	<b>Risk and return [8 Hrs]</b> Types of risk and return, Measuring and analyzing risk and return, Risk diversificati Capital Asset Pricing Model, Markowitz Portfolio Theory.							ification,	LO -2	
3		mathemati	rities [4 Hrs] ical formulas for	bond and stock w	valua	tion 1	nethoc	ls, The co	oncept of	LO-2, LO-3
4	Apply ma	Capital rai	l formulas for inv ioning), Increme							LO-3
5		C <b>apital [4</b> nent of geo	<b>Hrs]</b> aring, Cost of equ	ity/debt/preferen	ce sh	ares,	WACC	2		LO -3
6	Net workt capital,	Estimating	<b>8 Hrs]</b> l, Operating cycl g working capi management, Wo	tal needs, Rece	eivab					LO-3
	Introduc	tion to Di	vidend Policy [8	Hrs]						
7	Objectives of dividend policy, Practical considerations in dividends, Stability of dividends, Target payout ratio and dividend smoothing, Forms of dividends, Share buybacks, Chronology of dividend dates, Cum-dividend vs Ex-dividend prices.								LO-3	
Assessm										
Assessm	sment Weight						;ht	Learning outcomes		
Continu			In-class	tests [2 Hrs]				20%	ó	LO-1, LO2, LO-3
Assessm	ents (CA)		Group	Assignment				30%	6	LO-2, LO-3
Written	ten examination (WF) 50% [3 Hrs] LO-1, L							LO-1, LO-2, LO-3		

Module C	ode IM25	521	Modu	le Title	Or	ganiz	ationa	l Behavio	r	
Credits	2	2	Hours	s/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NGI	PA G	PA	Lectures	Lab / Tutes				CA	WE	IM1531
GI A/NGI	A	A	2					50	50	1111331
Module A		modul nization	e aims to exami s.	ne the behavior	of ir	ndivic	luals	working	as groups i	n contemporary
Learning										
			the students shou behaviour in rela		onol a	ffect	wonor	0		
			viour in organizat			meet	i venes			
LO-3	evaluate rele	evant of	ganizational theo	ries with relation	to or	ganiz	ationa	l effective	eness.	
Syllabus (	Outline									Learning Outcomes
1	Introduction to Organizational Behaviour [2 Hrs] Individual, group and organizational behaviour in modern workplaces								LO -1, LO-2	
•	Individual   Individual v		our [2 Hrs] attitudes and work	xplace emotions						LO -1
3	-		<b>rning in organiz</b> ceptual errors in							LO -1
4	-	_	ession manageme es, Impression i						eories and	LO-2, LO-2
	<b>Groups and</b> Group form		[ <b>4 Hrs]</b> Group dynamics, (	Group cohesivene	ess an	d effe	ctiven	ess		LO-2
6			<b>ce in the workpl</b> Power dynamics, 2			-				LO-2, LO-3
	<b>Decision making, culture and creativity [6 Hrs]</b> <i>Rational decision-making model, Emotional intelligence and creativity</i>							LO-3		
Assessmen	sments									
Assessme	nt							Wei	ght	Learning outcomes
Continuou	50%						~	LO-1, LO-2,		
Assessmen	nts (CA)	Grou	ıp assignment	30%				50	,,,	LO-3
Written ex	en examination (WE) 50% [2 Hrs]							Hrs]	LO-1, LO-2, LO-3	

Module Code	IM 2331	Modu	le Title	Co	st and	l Man	agement	Accounting	
Credits	3	Hours	/Week	С	Е	0	Evalu	ation %	Pre-requisites
GPA/NGPA	GPA	Lectures	Tutes				CA	WE	None
	0111	3					50	50	Tione
Module Aim:	This modul decision m		a comprehensive a	abilit	y to ı	ise Ma	anagemer	nt Accountir	ng perspectives in strategi
Learning Out									
		e, the students shou		•			1	· .	
-		management acco				-	-	siness contex	xt.
		and traditional cos		give	n dus	iness (	context.		
	-	ol techniques and	-						
		nt pricing methods	and other manag	gemei	nt acc	ountii	ng techni	ques.	I comine Ordeonice
Syllabus Outli									Learning Outcomes
1 Man	agement Acc	agement account counting vs financ management accou	ial accounting,					accounting	LO-1
Diff	erent costing	methods [6 Hrs]							
		g, Absorption costin costing system).	ıg method (traditio	onal	costii	ng met	thod), Act	ivity based	LO-1, LO-2
		ion making and m	0		<u> </u>		• • =	-	
		le costs, Assumpti making based on C					en point,	Margin of	LO-1, LO-2
		g and variance an							
		d standard costing s, Standard cost ca						rd costing,	LO-1, LO-3
5 Bud	geting and co	ontrol [ 9 Hrs]							
Budg		trategic planning, functional budget		lgetir	ıg, T	'ype c	of differe	nt type of	LO-1, LO-3
Inve	ntory manag	gement [4 Hrs]							
	of Inventory 0 and WAC.	, EOQ model, Dif	ferent stock levels	s, and	d vali	uation	of inven	tory under	LO-1, LO-4
		sed pricing [3 Hr	s]						
7 Shor	t run and lo	ng run pricing de	cisions, Pricing I	Facto	ors, F	Pricing	g objectiv	ves, Target	LO-1, LO-4
		cle costing, Pricin							
		<b>nagement and ac</b> n costing, Lean Pro		ods a	nd Va	ilue cl	hain anal	ysis [3h]	LO-4
Assessments									
Assessment							Wei	ght	Learning outcomes
Continuous		Group	assignment				30	%	LO-1, LO-2, LO-3
Assessments (	CA)	In-class test/ Indiv	idual assignment	[2 H	:s]		20	%	LO-3, LO-4
Written exami	nation (WE)						50% [3	B Hrs]	LO-1, LO-2, LO-3, LO-4

Module Co	de IM25	541 <b>M</b>	odule Title	Ma	nage	ment S	Science		
Credits	3	Но	ours/Week	С	E	0	Evalu	ation %	Pre– requisites
CDA/NCD/	A GP	A Lectures	Lab / Tutes				CA	WE	None
GPA/NGPA	A GP.	A 2	2				50	50	INOne
Module Air		lation and solutions	le students with fund using quantitative te						
Learning O									
LO-1 id m LO-2 aj LO-3 d F	lentify the spectro of the spectro o	are helpful in solvir natical formulations Management science	should be able to: ent Science, selected ng management probl for business decision ce approaches, techni Management, Accou	ems i n mak ques a	n a bu ing p and to	usines roblen ools in	s context ns. solving	managemen	t problems in
aj Syllabus Ou	pplications. <b>utline</b>								Learning Outcomes
1	ntroduction								10.1
1 E	Evolution of r	nanagement science	e approach to busine.	ss dec	ision	makir	ıg.		LO -1
2 G	Graphical Sc		thod, Duality theory ion & assignment pro						LO -2, LO-3
3 U	Ise of binary	ramming [9 Hrs] variables in model mputer application	formulation, Solutio s	ons me	ethod:	s of In	teger Pro	ogramming	LO -2, LO-3
4 S.	hortest-path		<b>6 Hr</b> s] ım spanning tree <sub>[</sub> work simplex probler					, problem,	LO-2, LO-3
5 D	ynamic pro	ogramming [6 Hrs]							LO-2, LO-3
6	<b>Jueuing ana</b> Overview, Qu		LO-2, LO-3						
Assessment	ts								
Assessment	t						Wei	ght	Learning outcomes
Continuous	5	In cl	ass Quizzes [2 Hrs]				20	%	LO-1, LO-2
e on ma o a									,
Assessment	ts (CA)	Lab	based Assignment				30% [3	3 Hrs]	LO-2, LO-3

Module C	ode IN	1 2221	Modu	le Title	Co	rpora	te Fina	ance		
Credits		3	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NGF		GPA	Lectures	Lab / Tutes				CA	WE	IM2211
GPA/NGP	A	GPA	2					50	50	IM2211
Module A		e purpose king is fa	of this module is cilitated.	to provide a broa	der u	nders	tandin	g on how	corporate fi	nancial decision
Learning			cintated.							
			the students shou							
			derstanding of fir	nance strategy in	creati	ng sh	arehol	der value		
			ance theories.							
LO-3	discuss ad	vanced as	sset valuation tech	niques in corpor	ate de	cisio	n maki	ing.		
Syllabus (	Outline									Learning Outcomes
	Sharehold	ler value	and corporate g	overnance [2 Hi	:s]					
1	Financial	goals a	und strategy, Sh	areholder value	crea	ition,	Corp	orate go	overnance,	LO -1
	Behaviora	l issues.					-	-		
	Leasing a	nd proje	ct finance [4 Hrs	]						
	-		Financial leases, L		Evali	uation	n of led	ises, Hire	purchase,	LO-1, LO-2
			ect finance.	U			Ū		•	
	Advanced	l capital	budgeting techni	ques [8 Hrs]						
		-	sis in finance, Ty	-	s, Op	tion v	alue c	alculation	ıs, Capital	LO -1, LO -2
			ysis techniques.	5 1	, I				· 1	LO-3
	Capital st	ructure	theories [4 Hrs]							
			iller theory, The s							LO-2
4		-	ation, The risk-shi	fting problem, Fr	ee ca	sh-flo	w argi	uments, T	he pecking	202
	order theo Conital re		overhang. ethods [8 Hrs]							
			itial Public Offer	ings. Alternative	Issue	Proc	edures	Private		LO-1, LO-2
	Placement				5540	1 /000	cances	, i rivaic		20 1, 20 2
	Dividend									
			(Walter's Model)							LO-2
1			end irrelevance		iglian	i), N	larket	imperfec	ctions and	202
			tion content of div orations [4 Hrs]	naenas, Taxes.						
			igs-based, divide	nd-based and ca	sh fla	w-ha	sed vo	uluation t	echniques.	LO-1, LO-3
	Contingen				j					
			isitions [7 hrs]							
		notives, I	Dubious motives,	Estimating merg	er ga	ins a	nd co.	sts, Mech	anics of a	LO-1, LO-3
	merger. Introduct	ion to co	rporate risk maı	agamant [? Ung	1					
			Probability of c			Insu	rance	Reducing	risk with	LO-1, LO-2
	derivative	-	, 1 roouonny og e	iegenni, venne en	,			1000000	,	20 1,20 2
Assessmer	nts									
Assessmer	nt							Wei	ght	Learning outcomes
										LO-1, LO-2,
Continuou		In-cl	ass tests [2 Hrs]					259	//0	LO-3, LO-4
Assessmer	nts (CA)	Grou	ıp assignment					259	~ <u></u>	LO-1, LO-2,
<b>XX</b> 7 •4+	•		r assignment				_	23	•	LO-3, LO-4
Written ex	kaminatio	n (WE)								LO-1, LO-2
								50% [ <b>2</b>	Hrs]	LO-1, LO-2, LO-3, LO-4
							1			200,00-

Module C	Code IM	2421	Modu	le Title	Co	nsum	er Bel	naviour			
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites	
GPA/NG	PA G	ŀΡΑ	Lectures 2	Lab / Tutes				CA 50	<b>WE</b> 50	None	
Module A	and mate	relates erial dra	aims to enable the aims to enable the transfer to the practice wn from psychological strains of the transfer to the transfer t	of marketing fin	ancia , soci	l pro ial an	ducts d beh	tand the and serv avioral sc	theory of con ices. It will the tiences within	present relevant n the framework	
Learning	of the consumer decision process, its main influencing factors with an analytical ap rning Outcomes										
LO-1 appl LO-2 anal designed t	y knowledg lyze a rang o impact the elop consum	e of con e of con e behavi	the students shous sumer behavior in nsumer behaviors or patterns in a m vior models and c	a range of busine using analytical aking decision fo	tool r purc	s and chasir	l mak ng fina	e recomi incial pro	nendations f ducts and se	for interventions rvices	
Syllabus (	Outline									Learning Outcomes	
1		n to Ce	nsumer Behaviour onsumer Behavio				Consu	ner Beh	aviour and	LO -1	
2	Motivation Consumer	and Inv Learnin	on Consumer Bel olvement, Persona og and Neuro-Sc d Consumer Beha	ılity, Self-Image, o ience Consumer						LO-1, LO-2	
3	The Influen Social Clas	ces of C s and Co	on Consumer Be Culture on Consun Susumer Behaviou f Innovations	ıer Behaviour, Su						LO-1, LO-2	
4	and Service Consumer I	es Decisior	n Making, Consun n Making-Process and Case Studies	, Consumer Decis	sion N	Makir	ng-Ou	comes, C	Consumer	LO-2, LO-3	
Assessmen	nts										
Assessme	nt							Wei	ight	Learning outcomes	
Continuo	116		vidual Consumer ic Area	Research on a Se	lected	1		15	%	LO1	
Assessme		-	agement with In-c					10	%	LO1, LO2, LO3	
		Gro	up Presentations a	nd Written-repor	t			25	%	LO3 LO1, LO2,	
Written e	ritten examination (WE) 50% LO3										

Module	Code IM	2231	Modu	le Title	Fir	ancia	al Mar	kets and l	Institutions	
Credits		3	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NG	<b>SPA</b> G	PA	Lectures 2	Lab / Tutes	-			<b>CA</b> 50	<b>WE</b> 50	IM2211
Module	Aim	course cipants.		e financial market	s and	stud	y its s	tructure,	institutions,	instruments and
Learning	g Outcomes									
After con LO-1 LO-2 LO-3	identify diff explain the	erent fi function	ning of other finar	Ild be able to: l services offered ncial centers/mark prent financial ass	ets.					
Syllabus									8	Learning Outcomes
1		of the	financial system,	institutions [2 Hi economic role of		nanci	al syst	tem, Struc	cture of the	LO -1
2		ure an		5] pank, sources and	d use	d of	funds,	Off bal	ance sheet	LO-1
3	Types of N	on-Ban		<mark>3 Hrs]</mark> itutions (NBFIs), , Regulation and						LO-1
3	Monetary p Loanable fu	olicy an nds the	nd the economy, 2	<b>ield curves [8 Hr</b> Theory of asset d re of interest rates c, Credit ratings.	eman					LO-2
4		ort- and Valuatio	long-term debt, l	Main features and prices and dirty p						LO-3
5		functio	n of forex markets	s, Participants in gerate calculation		mari	kets, T	Types of th	ransaction,	LO-3
6	Types of co stock trans Fundamente	mmon sactions al analy	stock transaction 5, Margin trad 5sis vs technical a		nmun al tr	ansa	ctions,			LO-2
7	Importance	of finar	icial risk manage	<b>dging and specu</b> ment, Risk manag , Options and Sw	emen			Fundamer	ntals of	LO-2 LO-3
Assessme	ents									
Assessme	ent							Wei	ght	Learning outcomes
Continue		In C	lass Quizzes [2 H	rs]				25	%	LO-1, LO-2 LO-3
Assessme	ents (CA)	Pres	entations and Ass	ignments				25	%	LO-1, LO-2, LO-3
Written	xamination (WE) 50% [2 Hrs]									LO-1, LO-2, LO-3

Module	Code IN	M2541	Modul	e Title	Hu	man	Resou	rce Mana	gement		
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites	
GPA/NO	GPA	GPA	Lectures	Lab / Tutes				CA	WE	None	
Module	Aim: ma	nagemen	2 this course is to t with a specific function that competitive advantages	ocus on the strate							
Learnin	g Outcomes		•	0							
After con LO-1	mpleting this demonstra	ate an und									
LO-2	apply nece establishm	•	ols and techniques	for the redesign	ot op	eratio	ons, pr	ocesses, a	and culture c	of business	
LO-3	discuss H	discuss HRM practice in business establishments.									
Syllabus	s Outline									Learning Outcomes	
1			<b>sponsibilities [6</b> ] of HRM and grow	-	sm w	ithin	the HI	R function	ı	LO -1	
2			<b>agement, learnin</b> gement, learning	0 0				-		LO-1, LO-2	
3	[8 Hrs]	_	<b>ing creative pro</b> ge in innovative c		vativ	e gro	oups a	and proj	ject teams	LO-2, LO-3	
4			s and employee v active employee re							LO-3	
Assessm	ents										
Assessm	ient	t Weight									
Continu	0115	In-c	lass tests	20% [1 Hr]						LO-1, LO-2	
	ents (CA)	Rep	ort & Presentation	30%				50	%	LO-1, LO-2, LO-3	
Written	examinatio	mination (WE) 50% [2 Hrs]									

Module	Code IN	12551	Modu	e Title	Pro	oject	Manag	ement		
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO	GPA (	GPA	Lectures	Lab / Tutes				CA	WE	None
Module	Aim: Thi	s course	2 aims to introduce	- fundamentals of	opera	tions	resear	50 Th conce	50 pts.	
	g Outcomes									
			the students should							
LO-1 LO-2	-	• •	nciples and praction ng appropriate pro	0	•					
LO-2 LO-3			s of project status		1 1001	5.				
	Outline	<u>e incuiou</u>	s of project status	reporting.						Learning Outcomes
1	manageme factors. De	ent discij efine proj	e areas, Definitio olines, Role of t ject requirements ster and Stakehold	he project mana and scope, Identi	iger, ify an	Eval	uate p	roject en	wironment	LO -1
2	diagrams	estimate and criti ce. Man	project scope, re cal path analysis age project costs,	s, Resource histo	gram	s, Pi	oject i	quality a	nd project	LO -2
3	Determine	the infor project	<b>ject information</b> mation and comm to appropriate ls.	unication needs o	of the	stake	holder	s, Comm	unicate the	LO -3
Assessm	ents									
Assessm	ent							Wei	ght	Learning outcomes
Continu	ous		In-clas	s test [1 Hr]				209	%	LO-1, LO-2
Assessm	ents (CA)		Group /Indiv	vidual Assignmer	nt			309	%	LO-2, LO-3
Written	examinatio	n (WE)						50% [2	Hrs]	LO-1, LO-2, LO-3

Module	Code IM2	361	Modul	e Title	Ad	vance	ed Aco	counting			
Credits	2		Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites	
GPA/NG	GPA GF		Lectures	Lab / Tutes				CA	WE	IM1351	
GPA/NO	FA OF	A	2					50	50	1111331	
Module			e aims to analyse ial and economic		ond	the o	rganiz	ational le	evel and ide	entify its role in	
	g Outcomes										
After cor LO-1	identify issue ethical profe	pleting this module, the students should be able to: identify issues, alternatives, and provide recommendations using advanced accounting kn ethical professional judgment. explain the concept of business combinations and the main theories and methods of accou									
LO-2	explain the concept of business combinations and the main theories and methods of accounting for busin combinations. develop consolidated financial statements at acquisition and in subsequent years for both fully owned a										
LO-3	partially own	ned sub	sidiaries.	-			-	-			
LO-4		oreign	currency transact	ions and consolid	ate fo	oreign	1 opera	ations.		Learning	
Syllabus	Outline									Outcomes	
1	•		work [ 4 Hrs] of accounting, Ha	rmonisation and	inter	natio	nal di <u>j</u>	ferences,	Corporate	LO -1	
2	-		atements [12 Hrs ints, Business con	-	ign c	urren	ncy tra	enslation,	Cash flow	LO -2, LO -3, LO-4	
3	Preparation Measuremen	-	oorts [6 Hrs] rformance, Price	changes and corp	orate	e failı	ıres, F	atio anal	ysis	LO-3	
4	Social and c	ultural	<b>ternational and</b> <i>o issues, Internatio</i>				urrent	issues		LO-1	
5	Accounting Financial In.		nrds [2 Hrs] nts, Off-balance s	heet finance, Rep	ortin	g fina	incial	performa	nce	LO-1, LO-2	
Assessm	ents										
Assessm	ent							Wei	ght	Learning outcomes	
Continu		In-cl	ass Tests [2 Hrs]					209	%	LO-1, LO-3	
Assessm	ents (CA)	Grou	p Assignments					309	%	LO-2	
Written	n examination (WE) 50% [2 Hrs] LO-2,										

Module	Code IM3211	Modu	le Title	Bu	sines	s Valu	ation and	Analysis			
Credits	3	Hours	s/Week	С	E	0	Evalu	ation %	Pre– requisites		
GPA/N	GPA GPA	Lectures	Lab / Assignments				CA	WE	IM2221		
		2	2				50	50			
Module	Aim: This module ai	im: This module aims to help students develop business valuation and financial analysis skill									
Learnin	ng Outcomes										
	mpleting this module, th										
LO-1 LO-2	make use of financial		-	4	1						
LO-2 LO-3	develop valuation mo discuss valuations usi										
	s Outline	ig alternative busi		Toaci	105.				Learning Outcomes		
	Financial Statement	Analysis [8 Hrs]									
1	Financial statements,		-	sis, Ai	nalys	is of g	rowth pot	ential,	LO -1		
	Comparative analysis	of ratio, Industry a	analysis.								
	Forecasting and Value			-							
2	Free cash flows, Build to equity valuation.	ing financial mode	ls, Enterprise valu	ation	, Con	tinua	ion value	, Cash flow	LO -2		
	Equity and Cost of C	anital [8 Hrs]									
3	Equity and Cost of C		and leverage CA	PM (	ind h	evond	Cost of	leht	LO -2		
			una tererage, en	1 101 0		eyona	0051 05 0				
4	<b>Relative Valuation</b> [8 <i>Equity multiples, Opti</i>	-	pay-offs, Equity/d	ebt v	aluati	on, R	eal option	valuation.	LO-3		
5	Mergers, Acquisition		-						LO-3		
	Mergers & acquisition	is, Offer structures	, and Leveraged b	ouyou	ts				200		
Assessn	nents		<b>.</b> .								
Assessn	nent						Wei	ight	Learning outcomes		
Continu	ious Assessments (CA)	Assignment with components	h individual and g	roup			50	%	LO-1, LO-2, LO-3		
Written	examination (WE)	3 Hrs]	LO-1, LO-2, LO-3								

Module	Code	IM3421	l	Modul	e Title	Cu	stom	er Rel	ationship	Managemen	t	
Credits		2		Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites	
GPA/NO	GPA	GPA		Lectures	Lab / Assignments				CA	WE	None	
				2	0				50	50		
Module	Aim:		nt and he	ow to formulate	dents a full under and implement a							
Learnin	g Outco	g Outcomes										
After con												
LO-1	service	pleting this module, the students should be able to: apply developed knowledge of customer relationship management in a range of business contexts for financial services.										
LO-2	-				ent program and o		-					
LO-3	discus	s CRM mod	els and o	concepts to dev	elop effective mai	rketii	ng str	ategie	s for finai	ncial produc		
Syllabus	s Outline	e									Learning Outcomes	
	Introd	luction to C	ustome	r Relationship	Management, K	ev E	leme	nts of	CRM [4	Hrs	0.0000000	
1				-	undations of CRM	•			-	-	LO -1	
		mics of CRM		conceptual jo	induitons of cru	, D.		S cus		anonsnips,		
	Intern	al and Exte	ernal re	lationships for	marketing [12 H	[rs]						
2		& relations		-	ders & internal i		eting	, exte	rnal stake	eholders &	LO -1, LO -3	
	Key re	ole of CRM	in deliv	vering the value	e & strategic pro	cess	es of	CRM	[8 Hrs]			
3		and B to C inalytics	relation	nships, eCRM so	olutions, Product	offer	rings	in the	CRM ma	rket space,	LO -1, LO -2	
4	CRM		tion, Th	ffective CRM e CRM roadma	[ <b>5 Hrs]</b> up, operational is	sues	in ir	nplem	enting C.	RM, Cross	LO-3, LO-2	
Assessm	ents											
Assessm	weight										Learning outcomes	
			Individ	hal avaluation	of the nature of R	M in	م دما	acted			LO-1	
Continu	ous Ass	essments	organiz				a ser 10%	ccied		50%	LO-1, LO-2, LO-3	
(CA)			Engage	ement with In-c	lass Activity / Qu	iz	10 %			50%		
		Ī	Group	Presentations a	nd Written-report		30%				LO-3	
End Sen Examin	Find of semester examination 50% 12 Hrs									[2 Hrs]	LO-1, LO-2, LO-3	

Module	Code	IM3531	Modul	e Title	Sm	all B	usines	s Manage	ement & Ent	repreneurship
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NG	'DA	NGPA	Lectures	Lab / Tutes				CA	WE	None
GFA/NG	rA	NOPA	2	-				50	50	None
Module A	Aim: T	This course	aims to introduce	fundamentals of	small	busi	ness m	anageme	nt and entre	preneurship.
	g Outcom									
			the students should		11.1					
LO-1 LO-2			ical and empirical concepts relevant					0		
LO-2 LO-3			a business plan fo			.gy u	evelop	ment.		
Syllabus		u ousiness		<u>- u omun omorpri</u>						Learning
Synasas	outilite									Outcomes
1	business & b	ses, Role of arriers	ole of small busin small businesses i in establishi ent and industrial	n an economy, Reing and i	eason mana	s for j ging	failure sn	of small nall i		LO -1
2	-		wing an entrepresental analysis, Ma				arketi	ng, strate	gy for firm	LO -2
3	Corpora	ite innova	<b>Concepts and T</b> tion philosophy, al, international a	Corporate en				and stra	ategy and	LO-3
4	Applicat Assessm	tion of kn	preneurship Ven owledge - Oppo rtunities and critic lan	ortunity identific						LO-3
Assessme	ents									
Assessme	ent							Wei	ght	Learning outcomes
Continuo			In-clas	s test [ 1 Hr]				209	%	LO-1, LO-2
	ents (CA)		As	signment				309	%	LO-2, LO-3
Written	ten examination (WE) 50% [2 Hrs] LC								LO-1, LO-2, LO-3	

Module	Code 1	IM3431	Modul	e Title	Dig	gital I	Marke	ting		
Credits		2	Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NO	"DA	NGPA	Lectures	Lab / Tutes				CA	WE	None
GFA/NO	ЛА	NOFA	2	0				50	None	
Module			course aims to equip students with the skills necessary to create and execute ar acting strategy by leveraging a range of digital marketing tools, tactics and techn							
	g Outcomes									
			the students shou							
LO-1	-	-	ant role of digital	-					he era of Ind	ustry 4.0.
LO-2 LO-3		-	tools to develop a veness of various	0 0		v			ahiarrina hu	sinasa apala
		the effective	veness of various	uigitai marketing	appro	Jacine	s and		chieving bu	Learning
Syllabus	Outline									Outcomes
	Introduc	ction [2 Hı	<b>s</b> ]							
1	Introduct	tion to digi	tal marketing stra	ttegy, Digital cus	tomer	• and	custor	ner value		LO-1
	Digital N	Marketing	Tools, Tactics a	nd Techniques [1	2 Hr	s]				
2	-	-	Web user experie	-			on & c	conversio.	n,	LO-2
2	social me	edia marke	ting, Advertising	and influencer m	ırketi	ng, S	earch	Engine M	larketing	LO-2
	(SEM), 1	Direct mar	keting tools in dig	gital marketing						
2	Digital N	Marketing	Performance Ev	aluation [10 Hrs	]					
3	Digital n	narketing n	netrics							LO-3
	Digital N	Marketing	Applications in	real life organiza	tions	; [ <b>4 ]</b>	Irs]			
4	Digital n	narketing c	ase analysis							LO-2, LO-3
Assessm	ments									
Assessm	ent							Wei	ght	Learning outcomes
Continu	ous		Case base	d Presentations				30	%	LO-2, LO-3
Assessm	ents (CA)		In class quiz a	nd Activities [1 H	Ir]			20	%	LO-1, LO-2
Written	examinati	ion (WE)						50% [2	Hrs]	LO-1, LO-2

Module Code	IM 3251	Modu	le Title	Th	eory	and Pr	actice in	Banking	
Credits	3	Hours	/Week	С	E	0	Evalı	ation %	Pre– requisites
GPA/NGPA	GPA	Lectures	Lab / Assignments				CA	WE	None
		3					50	50	
Module Aim:			ete and comprehe banking services						
Learning Outco									
demor		, the students show	Ild be able to: The Sri Lankan b	ankir	on eve	tom u	ith an en	nhasis on th	e role and
	ons of its reg		the SH Lankan b		ig sys	acini w		ipitasis oli ti	e foie and
LO-2 evalua	te the perform	mance of the bank	ting industry via b	ank l	lendir	ng poli	cies and	practices.	
LO-3 discus	s the changin	g composition of	the Sri Lankan fi	nanci	al ser	vices	sector.		
Syllabus Outline	e								Learning Outcomes
Evolu	tion of bank	ing institutions a	nd central bank	ng [(	6 Hrs	]			0 40001100
		-	listorical develop	-			ing syste	m, Types of	LO -1
banks,	, The role of o	central banking	-		-				
	background	of the banking i	ndustry [3 Hrs]						
2 Evolut	tion of centra	l banking and reg	ulatory requirem	ents					LO -1
Bank	and custome	er relationship [3	Hrs]						
3 Bank a	activities and	services, Managi	ing customer requ	irem	ents				LO -2
-		erformance [12 I							
-	al adequacy,	Asset quality, Ec	arnings managem	ent, I	Liqui	dity, S	ensitivity	to market	LO-2
risks	and liability	management [6	Hrel						
			st rate, and curi	ency	), Pr	ofit pl	anning a	and growth	LO-2,3
projec		4.0	- 1 1 • - 1	1	<u>и</u> г	0.11	1		
			al and industrial y management, E					s, Lending	LO-2,3
strateg	gies		-			1	5	, 0	,
1		tion fintach and c		mde	in ha	nkina			LO-3
Assessments	Digital transformation, fintech and other disruptive trends in banking ments								
Assessment							Wei	ght	Learning outcomes
Continuous			se Study Analysis	20%					LO-1, LO-3
Assessments (CA	A) =	Hrs] oort & Presentatio	n	30%		-	50	%	LO-2
Written examin	itten examination (WF)							LO-2 LO-1, LO-2,	
	. ,						50% [2	2 Hrsj	LO-3

Module Code	IM3231	Module	e Title	Pri	nciple	es of I	nsurance		
Credits	2	Hours/	Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NGPA	GPA	Lectures	Lab / Assignments				CA	WE	IM2221; IM2231
Module Aim:		2 aims to provide the		enera	l prin	ciples	50 and practi	50 ices of insur	ance in managing
Learning Out									
LO-1 iden LO-2 expl regu LO-3 dist	tify what insura ain the operational and the	the students should ance is, why insuran on of insurance, inc uses of insurance a major insurance p	nce works and he luding the functi is a protection ag	ons of ainst	f insu losses	rance,	insurance	e markets, ii	
Syllabus Outl	ine								Learning Outcomes
	k Assessment a	nd Insurance [2 H	Irs]						
1 Intr	oduction to risk	and insurance, Ris	sk management te	echniq	jues				LO -1
2	<b>Trance Industr</b> lution of the typ	<b>y [2 Hrs]</b> bes of insurers and i	marketing systen	ıs, Ins	uran	ce con	ıpany ope	erations	LO -2
3		urance Regulation		ntrac	ts				LO -2
		and Liability Rist		ty and	liabi	ility in	surance c	overages	LO -3
		erty and Liability ge policies and cov							LO-3
6		surance [8 Hrs]	ce, Health insura	nce c	overa	ges, E	mployee	benefits	LO-3
Assessments									1
Assessment							Wei	ght	Learning outcomes
Continuous Assessments (	1	Report & Presentation class Test/Quiz		[2 Hr	s]		50	%	LO-1, LO-2
Written exam	ination (WE)						50% [2	2 Hrs]	LO-1, LO-2, LO-3

Module	Code	IM3711	Modu	e Title	Bu	sines	s Law						
Credits		2	Hours	/Week	С	E	0	O Evaluation % Pre- requisites					
GPA/NO	"DA	GPA	Lectures	Lab / Tutes				CA	WE	None			
GFA/IN	JLY	UFA	2					50	50	None			
Module			aims to examine t and businesses.	the sources of Sri	Lanl	can la	w and	the contr	actual relation	onships between			
Learnin													
			the students shou										
LO-1			unctions of the Sr	•••									
LO-2 LO-3	•	•	e general legal en		ts bus	siness	es in S	Sri Lanka	•				
			onstraints on busir egal structures tha		lesses	and	the lay	v that reg	ulates busine	esses and the			
LO-4		ss environme				and		, and reg					
LO-5	propose	e potential so	olutions to legal p	roblems within th	ne bus	siness	envir	onment.					
Syllabus	Outline	•								Learning Outcomes			
1	Introd	uction to Sr	i Lankan Legisla	tion [4 Hrs]						LO-1, LO-2			
2	Theori	ies of Contra	act Law [6 Hrs]							LO-3, LO-4			
3	Sole tr	aders, partı	nerships and inco	orporated bodies	5 [6 H	[rs]				LO -4			
4	Manag	ging busines	s organisations [	6 Hrs]						LO-5			
5	-	ations of cor y of partner	ntractual arrange rs [6 Hrs]	ements on busine	ess or	ganis	ation	s, the aut	hority and	LO-5			
Assessm	ents												
Assessm	ent							Wei	ght	Learning outcomes			
Continu Assessm		Cas	ass test/quiz e Study Analysis ort & Presentation	10% <b>[1 Hr]</b> 10% <b>[1 Hr]</b> 30%				50	%	LO-1, LO-2, LO-3, LO-4, LO-5			
Written	examina	ation (WE)						50% [2	2 Hrs]	LO-1, LO-2, LO-3, LO-4, LO-5			

Module Code	IM3821	Modu	le Title	Bu	sines	s Rese	arch Me	thods	
Credits	2	Hours	/Week	С	E	0	Eval	uation %	Pre– requisites
GPA/NGPA	GPA	Lectures	Lab / Tutes				CA	WE	None
GPA/NGPA	-		4				50	50	
Module Aim:		e aims to enhan to research and ex ology.							
Learning Outco									
	0	, the students shou							
to 2 apply	concepts of v	cance of the major various business re arch designs for p	esearch designs ar	nd me		-		-	
LO-3 impli	cations of the	te research design technique employ	ved.	U					
LO-4 appro	aches.	suitable questions	•						ction
LO-5 analy Syllabus Outlin		tion to a particula	r research questio	n usi	ng m	ultiple	analytic	al tools.	Learning Outcomes
1 Intro	duction to th	e philosophy of r	esearch and the	resea	rch ]	proces	ss [2 Hrs	]	LO-1
2 The r	ole of literat	ure, literature re	views and critiqu	ies [2	2 Hrs	]			LO-2
3 Expe	erimental des	ign, Surveys and	questionnaires	[8 Hr	s]				LO-4
4 Qual	itative field w	vork and analyzi	ng qualitative da	ta [8	Hrs]				LO-4
5 Arch	ival research	and sampling, d	escriptive and in	ferer	ntial s	statist	ics [6 Hı	·s]	LO-2
6 Data	analysis usin	g appropriate so	ftware packages	- pra	actica	l sess	ion [4 I	Irs]	LO-4, LO-5
Assessments									
Assessment							We	ight	Learning outcomes
Continuous Assessments (C		Individual Assign literature re			al		50	9%	LO-3, LO-4
	G	roup Report: Inter quantitative	rviews, survey de data analysis 30%		and				LO-2, LO-6, LO-7
Written examin	nation (WE)						50% [	2 Hrs]	LO-1, LO-2, LO-3, LO-4, LO-5

Module	Code IM3	3441	Modu	le Title	Fin	ancia	ıl Serv	ice Mark	eting	
Credits		2	Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NG	GPA G	PA	Lectures 3	Lab / Tutes				<b>CA</b> 50	<b>WE</b> 50	None
Module			aims to encourag tor in an increasir							ts to the Financial
Learning	g Outcomes									
			the students shou							
LO-1 LO-2			marketing enviror				micos	markati	10	
LO-2 LO-3	outline the key issues and future trends that surround financial services marketing. distinguish differences of the Sri Lankan financial markets compared to others.								lg.	
LO-4	develop a comprehensive marketing plan for financial services.									
Syllabus	Outline								Learning Outcomes	
	Overview:	Marke	ting and Financia	al services [2 Hrs	5]					
1	Marketing theory and financial services, Recent developments in financial services, K							ces, Key	LO-1, LO-2	
			marketers, marke		nd bo	nd is.	sues.			
			Environment [4							
2			ronmental scannii							LO-1, LO-2
	influences in into environ		arketing of finance	al services, Integ	ratin	g the	Stakel	iolder pe	rspective	
			_	fou Financial	C	r	( II			
3			narketing strates							LO-3, LO-4
5		-	perspectives of th				ciui se	111203,		10 3, 10 4
			ining the brands				Irs]			
4			d Financial servi					tegies, C	Corporate	LO-1, LO-3, LO-4
	branding, co	orporat	e communications	5						201
5			arketing financi							LO-2, LO-3,
-		-	al services marke	ting, information	for c	uston	ıer rel	ationship	)	LO-4
	Managemen		ervices [4 Hrs]							
-			al value, pricing,	distribution of fin	ancia	ıl ser	vices	positioni	ng the	
6			nce and application							LO-3, LO-4
	financial ser									
			ting and Financia	-	-					
7	0	•	nd financial servi	ces, Recent devel	opme	nts in	finan	cial servi	ces, Key	LO-1, LO-2
<b>A</b>	issues for financial marketers									
Assessm	ents									Loomina
Assessm	ent							Wei	ght	Learning outcomes
			Individual	Assignment 10%						LO-1, LO-2, LO-3
Continu		Eng	agement with in-	class Activities 10	)% [1	Hr]		50	%	LO-3
Assessm	ents (CA)		oup Marketing pl	an, presentation a						LO-1, LO-2,
				30 %						LO-3, LO-4
Written	en examination (WE) 50 %[2 Hr] LO-1, LO-2, LO-3									

Module Cod	e IM325	1 Modu	le Title	Fin	ancia	l Tecl	nnology		
Credits	2	Hours	s/Week	С	E	0	Evalu	Pre– requisites	
	CDA	Lectures	Lab / Tutes				CA	News	
GPA/NGPA	GPA	2	0				50	50	None
Module Aim		rse provides an under e of "Financial Servi		arious	s tech	nolog	ies and in	novations th	at have changed
Learning Ou									
	0	ule, the students shou							<i>a</i> , , , ,
1 4 1-1	scribe the chi	onology of financial	innovation and er	viror	iment	dyna	mics that	influence th	e financial
		of AI and machine le	earning in finance						
-		tal finance infrastruct	-		d hov	v they	function		
1.1.1-4	• •	s of money that exits	finance& recogn	ize fi	nanci	al regi	ulatory fra	ameworks a	nd how they
	ect innovatio	n.							Learning
Syllabus Out	line								Outcomes
1 <b>Hi</b>	story of Fina	ncial Innovation [3	Hrs]						LO-1
2 [5 An	<b>Hrs]</b> alytics in find	t <mark>a with artificial inte</mark> unce, The role of datc e future of fintech	0			0			LO-2
3 Tra	unsforming	F <b>inance and Market</b> personal finance v Peer-to-peer lending	vith FinTech, L	Digiti	zatior	n of	financial	services,	LO -3
	gital Curren	<b>cies [5 Hrs]</b> cryptocurrency mark	ets, Block chain t	echno	ology,	types	of currer	ncies	LO-4
-	0	ation and RegTech lobile Money, Legal o		ıplica	ntions	ofcr	yptocurre	ncies	LO-4
6		n digital currency (b ancial advisory [5 H		nts (b	lock	chain)	, hedginş	5,	LO-2, LO-3, LO-4
Assessments									<b>۱</b> ــــــــــــــــــــــــــــــــــــ
Assessment							Wei	ght	Learning outcomes
Continuous Assessments	(CA)	Report a	nd Presentation				50	%	LO 1, LO-2 LO-3
Written exai	nination (W	E)					50% [2	2 Hrs]	LO1, LO-2 LO-3, LO-4

Module	Code	IM3261	Modu	le Title	En	trepre	neuria	l Finance	e	
Credits		2	Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NG	'DA	GPA	Lectures	Lab / Tutes				CA	WE	None
GI A/INC	пА	UIA	2					50	50	None
Module				understanding on f venture develop				financing	decisions in	n entrepreneurial
	g Outcom									
After cor LO-1		financial to	the students shou ols and technique	ald be able to: es needed for an e	ntrep	reneu	r to st	art, build	and harvest	a successful
LO-2	-		cing needs and us							
LO-3		a financial	plan to attract ou	tside funding.						Learning
Syllabus	Outline								Outcomes	
1	Introduction to entrepreneurial finance [6 Hrs] Basic concepts in entrepreneurial finance, overview of Sri Lankan context								LO-1	
2		ousiness stri		ousiness financia Illenges, Advanta					or smaller	LO-2
3	Main m	iethods use	-	<b>rces of financing</b> www.ventures, Ada			forma	tion and	l incentive	LO-2
4	Busines	s planning	<b>pusiness plannin</b> process in new v e of forecasting.	<b>g [6 Hrs]</b> entures, Main ele	ement	s of c	ı busiı	iess plan	for a new	LO-3
5	Financi	al planning	, forecasting an	d managing worl ancial statements.		capit	al req	uirement	ts [6 Hrs]	LO-3
6		and tools u		all businesses [6] y-stage businesse	-	use o	of veni	ure capit	al method,	LO-3
7	Structur	-		<b>vestment [6 Hrs</b> ] Fund raising pro		role	of an	gel inves	tors, other	LO-3
Assessm	nents									
Assessm	ent							Wei	ght	Learning outcomes
Continu			ass test/quiz /Cas	e Study Analysis	[2 H	rs]		25	%	LO-1, LO-2, LO-3
Assessm	ents (CA)	) Repo	ort & Presentation	1				25	%	LO-1, LO-2, LO-3
Written	tten examination (WE) 50% [2 hrs] LO1, LO2, LO3									

Module	Code	IM3281	Modu	e Title	Tre	easury	/ Deal	ing		
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO	ЭРА	NGPA	Lectures	Lab / Tutes				CA	WE	IM2231
OI A/IW	ЛА	NOLY	1	2				50	50	1112231
Module			will combine clas include market pa							
	g Outcor									
			, the students shou							
LO-1	-		ctices and conven	-		-			ash market	
LO-2 LO-3			office and back-of							
	s Outline		is completed in th	e sinulated treas	<u>ury u</u>	canng	210011	1		Learning Outcomes
	Introd	uction to th	e market conven	tions [7 Hrs]						
1	The ma	ain practices	and conventions,	Price formation,	Risk.	s and	uncer	tainty.		LO-1
	Overv	iew of the fu	nction of a deale	r. [7 Hrs]						
2			and practical issu	es facing FOREX	deal	ing, F	Risk m	anagemer	nt function,	LO -1, LO-2
	-	m keeping fu								
	0		Theory and Pra							
3	Advano enviror	-	l concepts in FC	REX markets, th	ie tra	insaci	tion p	rocess, Ir	ıformation	LO -3
		ties Trading	g [7 Hrs]							
4		-	l concepts in sha	re and bond trad	ing,	Uniqı	ie fea	tures in t	he market,	LO -3
	Market	t conventions	5.							
Assessm	ents									
Assessm	ient							Wei	ght	Learning outcomes
Continu	0115	Indi	vidual Assignmen	t				259	%	LO-1, LO -2
	ents (CA	A) Rep	ort & Presentation	L				259	%	LO-1, LO-2, LO-3
Written	Vritten examination (WE) 50% [2 Hrs] LO 1, LO-2 LO-3						LO 1, LO-2, LO-3			

Module	Code	IM3291	Modu	le Title	Inv	vestm	ent an	d Portfoli	io Managem	ent
Credits		3	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO	GPA	GPA	Lectures	Lab / Tutes				CA	WE	IM2231
UI A/IW	JIA	01 A	2	1				50	50	1112231
Module			aims to impart kn ncial asset portfo		nd tec	hniq	ies rec	quired to	analyse inve	stments and
	g Outcor									
After con LO-1			the students show erstanding of asso							
LO-2			ortfolio theories.	er priesing theory:						
LO-3			ce measures for p	ortfolio construct	ions.					
Syllabus	s Outline	;								Learning Outcomes
1			overview [6 Hrs] retical backgrour		nager	ment.				LO-1
2	Risk av		9 <b>Hrs]</b> rete versus contin Diversification, (							LO-1; LO-2
3			c <b>iency [6 Hrs]</b> empirical eviden	ce with relevance	e to fi	unds	manag	gement, B	Sehavioural	LO -1, LO-2
4	-	0	<b>ry and practice [</b> 1g Model, Arbitra	-	y ana	l Fac	tor mo	odels.		LO -1, LO-2, LO-3
5	Index i	-	anagement [6 H	-	ategie	es (str	ategic	, tactical	, statistical	LO -1, LO-2, LO-3
6	Perfor	mance meas	surement [6 Hrs] eynor Indices; In s.		Portf	folio I	Perfor	mance In	ndex (PPI),	LO-3
7		tive objectiv	ction (Extensions wes and portfolio					0		LO-3
Assessm	ients									
Assessm	ient							Wei	ght	Learning outcomes
Continu Assessm	ious ients (CA		se Study based A individu	ssignment with g al components	roup	and		50	%	LO -1, LO-2, LO-3
Written	tten examination (WE) 50% [3 Hrs] LO -1, LO -2, LO -3									

Module	Code IM	4511	Modul	e Title	Str	ategi	c Man	agement				
Credits		2	Hours	/Week	С	E	0	O Evaluation % Pre- requisites				
		DA	Lectures	Lab / Tutes				CA	WE	DA 1521		
GPA/NO	JPA G	PA	2					50	50	IM 1531		
Module			aims to provide a cesses within and				analy	vsis, strate	egic decision	-making and		
	g Outcomes											
After con LO-1			the students shou entals of strategy.									
-	•		tegy plays in aligi		al coi	mnete	encies	with cha	lenges of st	atic and dynamic		
LO-2	business en			ing organization	ui coi	mpeu	lieles	with one	licinges of su	the und dynamic		
LO-3	compare an	d contra	st the processes o	f formulating and	l imp	lemei	nting s	trategy.				
LO-4			c management p	rocesses that m	ay le	ad to	susta	inable c	ompetitive a	advantage of an		
LO-5	organization analyse diff		pes of business str	ategies and mear	s by y	whicł	1 thev	contribut	e to sustaina	ble development		
	s Outline	<u></u>			~ ~ )					Learning Outcomes		
1	Strategic n	nanager	nent and strategi	c competitivene	ss [2]	Hrs]				LO -1		
2	The exter competitor		vironment: Opj sis [4 Hrs]	portunities, thr	eats,	ind	ustry	compet	ition and	LO -1, LO -2		
3	The intern	al envir	onment: Resourc	ces, capabilities	and c	ore c	ompe	tencies [4	4 Hrs]	LO -1, LO -2		
4	Business-le	vel stra	tegy & Corporat	e-level strategy	[6 H1	rs]				LO-3		
5	Merger an	d acqui	sition strategies [	4 Hrs]						LO-5		
6	Cooperativ	e strate	egy [2 Hrs]							LO-5		
7	Corporate	govern	ance [2 Hrs]							LO-5		
8	Strategy i controls [4		entation: Strate	gic Leadership	, Oı	rgani	sation	al stru	cture and	LO-3, LO-4		
Assessm	ents											
Assessm	ent							Wei	ght	Learning outcomes		
Continu Assessm	ous ents (CA)	Indi	lass quiz vidual Assignmen 1p Project	10% [2 H t 10% 30%	[rs]			50	%	LO-1, LO-2, LO-3, LO-4, LO-5		
Written	examination	(WE)						50% [2	2 Hrs]	LO1, LO2, LO-3, LO-4, LO-5		

Module	Code IN	4341	Modul	e Title	Au	diting	g			
Credits		2	Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NO	GPA (	GPA	Lectures 2	Lab / Tutes	-			CA 50	<b>WE</b> 50	None
Module	Aim: The	e purpose	of this course is t	o provide a detai	led o	vervie	ew of a	auditing a	nd its profes	ssional practice.
	g Outcomes									
			the students shou							
LO-1	explain the	e basic co	oncepts related to	auditing						
LO-2	describe re	elevant au	diting standards.							
LO-3	discuss the	e applicat	ions of auditing s	tandards.						
Syllabus	s Outline		_							Learning Outcomes
1			<b>diting, audit eng</b> Audit evidence, An			-		ng		LO -1
2			<b>and internal audi</b> vironment, Types o	0 -	ı, Тур	es of	intern	al contro	ls	LO -1, LO -2
3			<b>ciples and ethics</b> al Conduct and E							LO -1, LO -2
4	Audit proc	edures o	and evidences [6 n different class o	f transactions an	d acc	ount l	balanc	ces		LO-2, LO-3
5	Responsib	ilities, ro	corporate gover les, and regulator							LO-2, LO-3
6	Audit rep Reporting audit quali	responsi	bilities of an audi	itor, Elements oj	f an c	udit	report	, Differe	nt types of	LO -3
Assessm	ients									
Assessm	ient							Wei	ght	Learning outcomes
Continu Assessm	ous ents (CA)	]	Report & Presenta	tion				509	%	LO-1, LO-2, LO-3
Written	examinatio	n (WE)						50% [2	Hrs]	LO-1, LO-2, LO-3

Module	2 Hours/Week C F O Evaluation % Pre-									
Credits	2		Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NG	PA GP	Δ	Lectures	Lab / Tutes				CA	WE	IM2221
GI A/NG	_		2	0				50	50	
Module A	Aim: under	standiı	examines cognitivn ng of the nature o ental economics.							
	Outcomes									
	npleting this module, the students should be able to: explain how cognitive biases predictably and consistently affect financial decisions.									
LO-1	•	•	-	•	•				ons.	
LO-2 LO-3	-		behavioural finan		nvest	or ber	18V10U	ır.		
Syllabus	apply behavioral finance models to financial markets. Outline								Learning Outcomes	
	Introduction	ı to be	havioural financ	e [4 Hrs]						
1			innings, Rational I					views, Ne	o-classical	LO -1
	vs Behaviour	al eco	nomics, Empirica	l evidence and pr	actic	al issi	ies.			
2	Heuristics a									LO -1, LO -2
-	Information p	proces	sing errors, Self-a	leception, Emotic	nal a	nd so	cial fa	ictors.		20 1,20 2
	Foundations	of be	havioural financ	e [6 Hrs]						
3			nd mental accou l evolutionary per		es to	Effic	cient .	Market I	Hypothesis,	LO -1, LO -2
4	Behavioural	aspec	ts of investing [6	Hrs]						LO-3
			Market anomalie		g.					LO-5
5		-	orate finance [6 H s of investing, fina	-	<u>M&amp;</u>	4, <i>cor</i>	porat	e governa	ince issues.	LO-3
Assessme	ents									
Assessme	ent							Wei	ght	Learning outcomes
Continuo		In-	class test/quiz /Ca	se Study Analysi	s			25	%	LO-1, LO-3, LO-4
Assessme	ents (CA)	Rej	port & Presentatio	n				25	%	LO-2
Written	ten examination (WF) 50% 17 hrs							LO-1, LO-2, LO-3, LO-4		

Module (										
Credits	2		Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NG	PA GF	• •	Lectures	Lab / Tutes				CA	WE	None
GFA/NG	ra Gr	A	2	2				50	50	INORE
Module A	im: This c	course	aims to introduce	fundamentals of	comp	any l	aw.			
	Outcomes									
After com LO-1 LO-2 LO-3 LO-4	outline the co explain the c develop their	oncept ore pri	the students shou of corporate statu nciples of compar- al faculties by eva- ical faculties by i	is, in particular as ny law. luating the rules,	polic	ies, a	nd pri	nciples of	company la	
Syllabus	Outline									Learning Outcomes
	Introduction	1 to co	rporate and com	mercial law [5 H	Irs]					
1	Introduction to corporate and commercial law [5 Hrs] Main concepts that underpin company law, including separate legal personality and limite liability, The nature of legal personality and lifting the veil of incorporation.								and limited	LO -1
	The formati	on of t	he company [6 I	Irs]						
2	including the	e memo	legal vehicle for orandum and arti s of promoters an	cles of associatio						LO -2, LO -3
3	Relations be ultra vires ar	tween i id cons	e company [6 Hi the company and tructive notice, di of the company.	outsiders, the gr						LO -2, LO -3
4		, remed	lies for the protec						s' personal	LO-3, LO-4
5	rights, including under the statutory contract and discussion of Assignments.         Corporate governance [6 Hrs]         Overview, Corporate accountability (stakeholder v shareholder issues), problems arising from the separation of ownership and control, including executive compensation and shareholder engagement.								LO-3, LO-4	
Assessme										
Assessme	ent							Wei	ght	Learning outcomes
Continuo	115		In-clas	ss test [1 Hr]				20	%	LO-1, LO-2
Assessme			Ass	signments				30	%	LO-1, LO-2, LO-3
Written e	examination (	(WE)						50% [2	Hrs]	LO-1, LO-2, LO-3, LO-4

Module (										ons
Credits	2	2	Hours	s/Week						
GPA/NG		PA	Lectures	Lab / Tutes				CA	WE	None
GPA/NG	PA GI	PA	2	0				50	50	None
Module A				students with kno in order to succes						
	Outcomes									
			the students shou		• ,	. 1			• ,•	
LO-1	apply the key terms, definitions, and concepts used in integrated marketing communic examine how integrated marketing communications help to build brand identity and b									
LO-2	examine how integrated marketing communications help to build brand identity and b create brand equity through brand synergy.								and brand r	erationship, and
LO-3	develop an integrated cross-media strategy and creative message and concept to reach th									rget audience
				h an IMC campai			. ,	1.	· •,	
LO-4	evaluate the communications effects and results of an IMC campaign to determine its suc									ss. Learning
Syllabus	Outline									Outcomes
	Introduction [2 Hrs]									
1	IMC and ma	ırketing	communication							LO -1
	IMC and P	anning	g [6 Hrs]							
2			view, IMC planni enting, and IMC j	ng situation anal positioning	ysis,	SWO	T ana	lysis, IM	C planning	LO -2
	IMC and M	[edia [8	B Hrs]							
3				ales promotion m C media planning		Publ	ic rela	itions me	dia, Direct	LO -3
	IMC and B	rand N	lessages [8 Hrs]							
4				MC and media pla message executio		ng, IM	1C and	l messag	e planning,	LO -3
5	IMC and R	egulati	ons and Issues[6	Hrs]						
3	IMC and regulation, IMC and ethical, social, and legal issues, IMC and measurineffectiveness								measuring	LO-4
Assessme	ents									
Assessme	ent							Wei	ght	Learning outcomes
Continuo	ous		Case base	ed Presentations				30	%	LO-3, LO-4
Assessme	ents (CA)		In class quiz a	and Activities[1 H	[r]			20	%	LO-2, LO-3
Written e	examination	(WE)	ritten examination (WE) 50% [2 Hrs] LO-1, LO-2, LO-3							LO-1, LO-2, LO-3

Module										
Credits		2	Hours	/Week	С	Е	0	Evalu	ation %	Pre– requisites
GPA/NO	СРА	GPA	Lectures	Lab / Tutes				CA	WE	IM2221
GIA/INC	JIA	UIA	2					50	50	11012221
Module	Aim:	This course	provides the nece	ssary knowledge	and s	kills f	for per	sonal fin	ancial plann	ing.
Learnin	0									
		pleting this module, the students should be able to:								
LO-1	-	identify the personal financial needs and personal financial market in Sri Lanka. explain the nature of currently available financial and insurance products that may be								or personal
LO-2		al planning.	on currently availa		insura	ance	produc	as mat m	ay be used i	or personal
LO-3		discuss various components of the financial planning processes.								
Syllabus	s Outline									Learning Outcomes
1			g Environment a	-	rs]					LO -1
1	Person	al financial	industry in Sri La	nka and trends						201
	-	-	ncial Planning ar	0	-		-			
2	alterna	tive courses	t financial situa of action, Evalua evise the financial	te alternatives, C						LO -2, LO -3
2	Risk N	<b>Ianagement</b>	and Insurance [	4 Hrs]						
3	Manag	ging risks and	l insuring resourc	es						LO -2, LO -3
4	-		nancial Planning rement planning, 1			erson	al deb	t manage	ement	LO-2, LO-3
Assessm	Tax planning, Retirement planning, Investment planning, Personal debt management ents									
Assessm	ent							Wei	ght	Learning outcomes
Continu Assessm			ap Projects ass quizzes/exam	30% s 20% [ 1 Hr]				50	%	LO-1, LO-2, LO-3
Written	n examination (WE) 50% [2 Hrs]							2 Hrs]	LO-1, LO-2, LO-3	

Module C	rs 3 Hours/Week C F O Evolution % Pre-									inance
Credits	3		Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NGP	PA GP	•	Lectures	Lab / Tutes				CA	WE	IM2221
GPA/NGP	A GP	A	2	2				50	50	INIZZZI
Module Ai			e provide an under tudies of actual ev		inanc	e ind	ustry f	rom diffe	erent perspec	ctives, using rea
Learning										
LO-1 0 LO-2 a	npleting this module, the students should be able to: demonstrate an understanding of the practical issues faced in financial decision making is apply knowledge and skills to assess contemporary case studies in applied finance. evaluate decision outcomes when faced with real world financial issues.									ne real world.
Syllabus C										Learning Outcomes
			ance and Strateg		s]					LO-1, LO-3
]	Personal Fir	ancia	l Planning [7 Hrs	5]						
			sonal financial pl investing, saving		ue of	mone	ey, risł	k, return,	investment	LO-2, LO-3
	Corporate F	'inanc	e [7 Hrs]							
	Case studies dividends.)	corp	orate finance (C	apital budgeting	, Fir	ancii	ng, W	orking c	apital and	LO-3
	Investments									LO-1, LO-2,
	<u>Case studies</u> Risk Manag		esting (Securities	analysis, portfolio	o mar	iagen	nent, r	isk minim	ization.)	LO-3
5	0		isk management	(Risk Managem	ent,	Futu	res, S	waps, O <sub>l</sub>	otions and	LO-1, LO-2, LO-3
6	<b>Regulation and ethics [7 Hrs]</b> <i>Case studies in regulation and ethics (Ethics, Taxation, Legal environment, ESG factors.</i>							G factors.)	LO-1, LO-2, LO-3	
Assessmen	nts									
Assessmer	nt							Wei	ght	Learning outcomes
Continuou	15	Indi	vidual Assignmen	t				25	%	LO-1
Assessmen	nts (CA)	Grou	ıp Assignment					25	%	LO-2, LO-3
Written ex	tten examination (WE) 50% [3 Hrs]							LO-1, LO-2, LO-3		

Module Code	ode     IM 4901     Module Title     Research and Development Project       8     Image: Second										
Credits	8 (Semester 7= 4 + Semester 8= 4)	Hou	rs/Week	с	E	o	Evalı	uation %	Pre– requisites		
GPA/NGPA	GPA	Lectures	Lab / Tutes				CA 100	WE	None		
Module Aim:	This module ain personal characte										
Learning Outc											
LO-1 discu LO-2 form LO-3 revie evalu busir LO-5 recor LO-6 debai LO-7 defer Syllabus Utlin academic / proj Research and t		em and its co nto a viable p re and critique of alternative action through of the propose peers and su should be cov a minimum o on individua	ntext. roject proposal u e the impact of the research methods an an appropriately sed business solut pervisors. rered with the cor- of 120 contact hom	e prop and writt tion. nmur	posec apply ten pr nicatio	l proje appro- roject on and the se	ect. opriate m report. l interacti emester 7	ethods to the on with the and 8)	Learning Outcomes		
1 <b>Prob</b>	lem identification	[10 Hrs]							LO-1		
2 <b>Rese</b>	arch methodology	and Resear	ch design [20 Hr	s]					LO-2, LO-3, LO-4		
3 Proj	ect proposal writin	ng and prese	ntation [30 Hrs]						LO-4, LO-5		
4 Field	l work, analysis, d	iscussion and	l recommendati	ons [	30 H	rs]			LO-3 LO-4,		
5 Proj	ect report writing	and present	ation [30 Hrs]						LO-5, LO-6, LO-7		
Assessments											
Assessment								Weight	Learning outcomes		
Continuous As (CA)	sessments I	Detailed prop	osal, Research Re and viva	•	Oral	preser	ntation	100%	LO-1, LO-2		
***	en examination (WE)										

Module	Pro_											
Credits		3	Hours	/Week	С	E	requisites					
GPA/NO	TDA	GPA	Lectures	Lab / Tutes				CA	WE	IM2221;		
GF A/IN	ЛА	UFA	2	2				50	50	IM2231		
Module	Aim:	This module	aims to impart fu	indamental under	stand	ing o	f trada	ıble finan	cial derivati	ves.		
Learnin												
LO-1 LO-2 LO-3	<ul><li>mpleting this module, the students should be able to:</li><li>demonstrate knowledge on how different types of derivatives operate, and how they are applied and priced in the markets.</li><li>distinguish the attributes of main financial derivatives.</li><li>decide the type of security to be used for hedging and speculative purposes.</li></ul>											
Syllabus	Outline								Learning Outcomes			
1	Struct	ure of Forwa	<b>s and Securities</b> rd, Futures and O nd Option contra	ption markets, Be	-		0		utionship	LO -1		
2			ires contracts [10 ms, hedging, value	-	ies					LO -1, LO -2		
3	-	n contracts [ 1 markets, va	<b>10 Hrs]</b> luation and tradin	eg strategies.						LO -1, LO -2, LO-3		
4	-		erivatives [10 Hr	-	nd ot	her ei	nbedd	led deriva	ıtives	LO -1, LO -2, LO-3		
Assessm	nents											
Assessm	ent							Wei	ght	Learning outcomes		
Continu Assessm			gnment with Indi	vidual and Group				50	%	LO-1, LO-2, LO-3		
Written	ten examination (WE) 50% [3 Hrs] LO-1, LO-2, LO-3											

Credits									tiquettes		
		2     Hours/Week     C     E     O     Evaluation %     Pre-requisites       NCDA     Lectures     Lab / Tutes     CA     WE     None									
GPA/NGI		IGPA	Lectures	Lab / Tutes				CA	WE	None	
OI A/NOI			2					100			
			introduces the pr								
Module A			practical guidance m business relatio		place	e situa	tions 1	n order to	o toster enga	ging, productive	
Learning	Outcomes										
			the students shou								
			understand how i				and oth	ner organ	isations.		
			onversation both in				and re	doratord	the otiquett	a of how to deal	
	explore the business etiquette of different cultures and countries and understand the etiquette of how to deal with ethical dilemmas, personal issues, and difficult people.										
	apply effective and customised strategies to engage politely in different situations										
Syllabus (	Outline									Learning Outcomes	
1	Introduct	ion to bu	siness etiquette [	2 Hrs]						LO-1	
2	Written et	tiquette [	8 Hrs]							LO-2	
3	Behaviou	r etiquett	e [6 Hrs]							LO-3	
4	Telephone	e etiquett	e [4 Hrs]							LO-3	
5	Facing jol	b intervie	ews [6 Hrs]							LO-4	
6	Networki	ng etique	tte [ 4 Hrs]							LO-4	
Assessme	nts										
Assessme	nent Weight (%)										
Continuo (CA)	us Assessn	nents	Individual Ass	ignment	5	0%		100	%	LO-1, LO-2, LO-3	
			Group Present	ation/Role play	5	0%				LO-4	
Written e	xaminatio	n (WE)									

Module	Code IM4231	Modu	e Title	Fir	nancia	ıl Serv	ices Reg	ulation and I	Ethics
Credits	2	Hours	/Week	С	E	0	Evalu	ation %	Pre– requisites
GPA/NG	GPA GPA	Lectures	Lab / Tutes				CA	WE	None
OI A/IIC		2					50	50	None
Module		this module is to ional practice.	provide knowled	dge ab	out tl	ne fina	ncial ser	vices indust	ry, its regulation
	g Outcomes								
	npleting this module			• •	• •				
LO-1 LO-2	identify the structure explain the important			y in S	ri Lai	ika.			
LO-2 LO-3	discuss legal aspec								
Syllabus	Outline		Learning Outcomes						
1	Introduction to fi	nancial services i	ndustry [4 Hrs]						LO-1, LO-2
2	Structure and cor	nponents of finar	cial services in	dustry	7 <b>[4 H</b>	[rs]			LO-1
3	Regulatory frame	work [ 4 Hrs]							LO-2
4	Concept of Risk a	nd its implication	ns on stakehold	ers [8	Hrs]				LO-2
5	Legal aspects [4 H	[rs]							LO-3
6	Professionalism a	nd ethical practio	es [4 Hrs]						LO-2, LO-3
Assessm	nents								
Assessm	ent						We	eight	Learning outcomes
Continue (CA)	ous Assessments	Group Project In-class quiz/		[1H	r]		50	)%	LO-1, LO-2, LO-3
End Sem	emester Examination 50% [2Hrs]								

Module	Code	IM4441	Modu	le Title	Pro	ofessi	onal S	elling		
Credits		2	Hours	/Week	С	Е	0	Evalı	ation %	Pre– requisites
GPA/NO	трл	GPA	Lectures	Lab / Tutes				CA	WE	None
GI A/IW	ЛА		2	2				50	50	
Module	Aim:	selling functi	on and gain insig	the participants to ught into the role of organisations wh	f pers	onal	selling	in mark	eting and so	ciety and its
Learnin	0									
After con	mpleting this module, the students should be able to: explain the key components, frameworks, and methods used in the selling process and in									
LO-1	explain the key components, frameworks, and methods used in the selling process and in in financial services organisations.								ess and in sal	es management
LO-2	develop relationship strategies, product strategies, customer strategies, and presentation								entation stra	tegies that
LO-2			inancial services				trotoga	for a rad	lorganizati	n markating
LO-3		design, execute, document, and critique a comprehensive sales strategy for a real organ financial products and services.								ni marketnig
Syllabus	Outline								Learning Outcomes	
1	Make-up of a professional salesperson [ 4 Hrs] Developing a personal selling philosophy, Developing a relationship strateg Entrepreneurial selling, Building an ethical foundation							strategy,	LO-1, LO-2	
2		v <b>-how of prod</b> to add value, E		ict expert, Featur	es an	d ben	efit, P	roduct pe	ositioning	LO -1, LO -2
3	Unde	oring custome rstanding buye spect database	r behaviour: Pla	nning your prospe	ecting	g, gen	eratin	g prospec	cts building	LO -1, LO -2
4	Pre-a	pproach, App		g <b>sales [8 Hrs]</b> tative sales pre ng buyer concern						LO-2
5	Mana servio Sales Mana	ces industry [8 forecasting, S	<b>3 Hrs]</b> etting sales quota orce, Case studie	plications on personal sales on personal sel	s teri	itory,	Man	aging tim	ve & stress,	LO-3
Assessm	eents									
Assessm									ght	Learning outcomes
			Prospecting A	-		10%				L01, L02
Continu	ous As	sessments		vith in-class Activ	vities	10%		50	0/	LO-2
(CA)			[1 Hr] Group Sales F	Presentation and R	lepor	t 30%	,	50	70	LO-1, LO-2, LO-3
End Sen	nester I	Examination	End of semest	er examination				50 % [2	2 Hrs]	LO-1, LO-2, LO-3

Module												
Credits		2	Hours	/Week	С	Е	E O Evaluation % requisites					
GPA/N	CDA	GPA	Lectures	Lab / Tutes				CA	WE	IM2221/		
GFA/IN	GIA	UFA	2	2				50	50	IM2231		
Module			provides synopti finance accountin		abou	t vari	ous is	ssues from	n research j	published in the		
Learnin	g Outcomes											
After co			the students show									
LO-1			rces of financial a levant issues.	nd/or accounting	resea	rch ii	n orde	r to devel	op a compre	hensive		
LO-2	in finance.		led critical thinking	0						-		
LO-3	discuss co	ntempora	ry issues in finan	ce and/or account	ing to	o a no	n-tech	nnical aud	ience as par			
Syllabu	s Outline									Learning Outcomes		
1	Contempo	rary issu	<b>ues in corporate</b> es in main corpora d corporate gover	ate finance catego	ories (	inves	ting, f	inancing,	dividends,	LO-1, LO-2, LO-3		
2	Contempo	orary iss	ues in investmen	ts [6 Hrs]						LO-1, LO-2,		
Z	Contempo	rary issu	es in financial ma	rket and, portfoli	o mai	nagen	nent			LO-3		
2	Contempo	orary iss	ued in financial i	nstitution mana	geme	nt [6	Hrs]			LO-1, LO-2,		
3	Contempo	rary issu	es in banking and	non-banking inst	titutio	ns				LO-3		
4			ues in corporate							LO-1, LO-2,		
			ctors, Corporate			ociet	al trus	t		LO-3		
5			ues in financial t			. 1				LO-1, LO-2, LO-3		
Assessm		ontemporary issues in emerging trends in financial technology								LO-3		
Assessii	ients									Taamira		
Assessm	nent							Weig	ght	Learning outcomes		
Continu Assessm	ious ients (CA)	Rep	ort & Presentation	l				509	%	LO-1, LO-2, LO-3		
End Ser Examin	nester	End	of semester exam	ination				50% [ <b>2</b>	Hrs]	LO-1, LO-2, LO-3		

Module	Code	<b>Example</b>									
Credits		2	Hours	/Week	с	Е	0	Evalu %		Pre-requisites	
GPA/NO	трл	GPA	Lectures	Lab / Tutes				CA	WE	None	
OI A/IW	ЛА		2	2				50	50		
Module	Aim:	intermediari		ilds on the knowl	edge					cial institutions and and Practice module	
Learnin		this module, the students should be able to:									
	· ·										
LO-1	-	-	ince of financial in				-				
LO-2		uate the performance of different types of financial institutions.									
LO-3 Syllabus		uss the main types of risks in financial institutions.								Learning Outcomes	
	Overv	view of Final	ncial Institutions	in the Global Co	ntex	t [7 H	Irs]			LO-1	
1		0	ontext of the finan sheet business	ecial industry, Re	gulat	ory e	nviron	ment, En	nerging		
2	Measu	uring Financ	cial Performance	[7 Hrs]						LO-1, LO-2	
2	Measu	iring importa	ent aspects such as	, profitability, liqu	uidity	, cap	ital aa	lequacy			
	Measu	uring Risk E	xposure [7 Hrs]							LO-2, LO-3	
3	Credit	0	risk, liquidity ris	k operational risk	k and	capi	tal ris	k. Impacı	of off-		
4			t and Compliance		nent a	of risk	s iden	tifies in T	Topic 3	LO-2, LO-3	
Assessm	ents	nts									
Assessm	ent							Weigl	nt	Learning outcomes	
Continu Assessm		A) Rep	ort & Presentation					50%		LO-1, LO-2 LO-3	
End Sen Examina	End of semester written examination						LO-1, LO-2, LO-3				

Module	Code IM4	261	Modu	le Title	Int	ernati	ional I	Financial	Managemen	t
Credits	3	;	Hours	/Week	С	E	0	Evalı	uation %	Pre– requisites
GPA/NG	GPA GF	PΔ	Lectures	Lab / Tutes				CA	WE	None
<b>GIA</b> /Itt			2	2				50	50	
Module	Aim:	im of t	his course is to pro	ovide a good unde	erstan	ding	of fina	nce from	an internati	onal perspective.
	g Outcomes	1.1		111 11 /						
After cor LO-1	demonstrate	knowl	the students shou edge of the global order business tra	nature of money	and	capita	ıl and	analyze t	he motives,	opportunities
LO-2	explain the b	ackgro	ound and use of in	ternational marke	ets.					
LO-3			ate systems and ev							
LO-4	discuss key f	actors	that influence for	eign direct invest	ment	and i	ts driv	ers		Looming
Syllabus	Outline									Learning Outcomes
1	An Overvie	w on n	ultinational fina	ncial manageme	ent [2	Hrs	]			LO-1
	Internation	al flow	of funds [8 Hrs]							
2	flows/FDIs.	-	ent, Current acc	-	ctors	affe	cting	internati	onal trade	LO-1
			ncial markets [8							
3			market, Interna market, Internatio			Inte	ernatio	onal crea	dit market,	LO-2
4			stems, Dollariza			and	Trans	slational	Exposure	LO-3
5	Internation	al Arb	itrage and Intere	st Rate Parity [6	6 Hrs	]				LO-3
	Relationshi	) betw	een inflation, int	erest rates and e	xcha	nge r	ates (4	4 Hrs)		
6	-		, Relative form Pl			-		~)		LO-3
-	Internation	al capi	tal Budgeting an	d transfer pricin	g [4	Hrs]				
7	-		analysis, Foreigr	n project appraise	ıl, Tr	ansfe	r prici	ng		LO-4
8	Country Ris Political stat	-	[ <b>rs]</b> Economic stability	, Emerging mark	et cri	sis				LO-4
Assessm	ents									
Assessm	ent							Wei	ight	Learning outcomes
Continue	ous ents (CA)	In-c	ass test/quiz	20% [1 Hr]				50	1%	LO-1
			ıp Assignment	30%						LO-2
Written	examination	(WE)						50% [2	2 Hrs]	LO-1, LO-2, LO-3, LO-4

Module	Code	IM4371	Modu	le Title	Co	rpora	te and	Personal	Taxation	
Credits		3	Hours	5/Week	С	Е	0	Evalu	ation %	Pre-requisites
GPA/NG	ЧРА	GPA	Lectures	Lab / Tutes				CA	WE	None
GI A/INC	пА	UIA	3	0				50	50	None
Module			ul completion of natters within Sri		earne	rs sho	ould b	e able to o	lemonstrate	a comprehensive ability
Learning After cor LO-1 LO-2 LO-3 LO-4	npleting t demons determi estimate	his module, trate an ove nation of re the income	sidency rule appl e tax liability of a	g of the types of ta ication in taxation n individual, a par	and	sourc ship a	e of in nd a c	come.		Taxes).
Syllabus			<b>_</b>						0	Learning Outcomes
1	Objecti	ves and pri	<b>exation [3 Hrs]</b> inciples of taxati x bases, Sources	on, Imposition of of income	f taxe	es, Ty	pes o	f taxes (l	Direct and	LO-1, LO-2
2		y <b>ment Inco</b> e and exemp		ncome, Non cash	benej	fits, A	PIT p	ayment		LO-2
3		ss Income [ l deductions	-	, Specific deductio	ons					LO-2
4			e and other Inc	come [3 Hrs] ion on each invest	ment	incon	nes an	d capital	gains tax	LO-2
5	Tax con	-	n individual, Con	vidual, Company				-		LO-3
б	Registra	ation, Time	(VAT) [6 Hrs] of supply, Tax ir implified Value A	woice, VAT rate, dded Tax (SVAT)	Com	putati	ion of	VAT, VA	T payment	LO-4
7		nt of incom	<b>ad procedures [3</b> e tax, Furnishing	<b>Hrs]</b> g of Income tax i	returr	ı, Ass	essme	nts, obje	ctions and	LO-4
Assessm	ents									
Assessm	ent	,						Wei	ght	Learning outcomes
Continue Assessme		)		nd Presentation				30° 20°		LO-1, LO-2, LO-3
Written	examina	tion (WE)						50% [3		LO-2, LO-3, L-4

	Code IM 4	801	Modu	le Title	Ind	ustria	l Trai	ning / Int	ernship	
Credits	6		Hours	/Week	С	Е	0	Evalu	ation %	Prerequisites
GPA/NO	GPA NGP	A	Lectures	Lab / Tutorials				CA 100	WE	None
Module	Aim: This n service	nodule a es by of	aims to enable the ffering them the	e participants to chance to gain pr	acquii ractica	e trar l exp	isferat osure.		in the area o	f business and financial
Learnin	g Outcomes									
After con	mpleting this m	odule, 1	the students shou	ıld be able to:						
LO-1	compare acad	lemic a	nd industrial env	vironments.						
LO 1 LO-2	relate the kno	wledge	gained via train	ing to the R & D	proje	ct.				
-		U	l ethics and busi	C	r J.					
LO-3										
LO-4		naings	in a training repo	ort.						
	<b>Outline:</b> owing should be	covere	d with a minimu	m of 600 hours of	n the j	ob un	der an	assigned	supervisor	Learning Outcomes
of the tra	ining organisat	ion and	an academic co	ordinator.	,			8		
	Induction									
1	The students training. He	should She sh	l meet his/her n ould also recei	ident in the trans ientor to discuss ve information of ind conditions of o	s the about	conte the i	nts an rainin	d the ob	jectives of	LO -1
	General trai	ning				·				
2	of departmen	ganisat								
-		ı team	ler these circum in the organis	include an introd stances, the stud sation. The stud fors of the organi	lent m lent sl	ay ev hould	entua	lly be wo	rking as a	LO-1, LO-2
3	management Practical Ski During this p	a team and adi i <b>lls</b> veriod, i	ler these circum in the organis ministration sect the student shou	stances, the stua ation. The stud	lent m lent si isatior ctions	ay ev hould 1. in the	entua be n	lly be wo hade awd tical skill	orking as a are of the Is essential	LO-1, LO-2 LO-2, LO-3
_	management Practical Ski During this p for his/her fi	a team and adi ills period, i uture ei	ler these circum in the organis ministration secu the student shou mployment. It s	stances, the stud sation. The stud fors of the organi ld receive instruc	lent m lent si isatior ctions	ay ev hould 1. in the	entua be n	lly be wo hade awd tical skill	orking as a are of the Is essential	
_	management <b>Practical Sk</b> During this p for his/her fi processes. <b>Directed obj</b> The major po student intens specialization be encourage	i team and add ills veriod, i uture ed ective f urt of th ds to fo i in whi ed to v	ler these circum in the organis ministration secu- the student shou mployment. It s <b>craining</b> the training shou bllow after the the student w vork on a real	stances, the stud sation. The stud fors of the organi ld receive instruc	lent m lent si isation ctions ude ar applia (activ g in). A giver	ay ev hould in the a app cation vities At this a incr	entua be n e prac reciat to th should stage reasing	lly be wo nade awo tical skill ion of th e activity l be rele , the stua	rking as a are of the ls essential e business which the vant to the lent should	
3 4 <b>Assessm</b>	management Practical Ski During this p for his/her fi processes. Directed obj The major pa student intent specialization be encourage independent ents	i team and add ills veriod, i uture ed ective f urt of th ds to fo i in whi ed to v	ler these circum in the organis ministration secu- the student shou mployment. It s <b>craining</b> the training shou bllow after the the student w vork on a real	stances, the stua sation. The stud fors of the organi ld receive instruc- hould also inclu- ld have directed raining program ill be graduating project and be	lent m lent si isation ctions ude ar applia (activ g in). A giver	ay ev hould in the a app cation vities At this a incr	entua be n e prac reciat to th should stage reasing	lly be wo nade awo tical skill ion of th e activity l be rele , the stua g respon.	rking as a are of the ls essential e business which the want to the lent should sibility for	LO-2, LO-3 LO-3, LO-4
3 4 Assessm	management Practical Ski During this p for his/her fi processes. Directed obj The major po student inten- specialization be encourage independent the ents	a team and add ills eeriod, a uture en ective f urt of th ds to fc t in whi ed to v work to	ler these circum in the organis ministration sect the student shou mployment. It s raining the training shou bllow after the the ch the student w vork on a real establish interes	stances, the stud sation. The stud ors of the organi ld receive instruc hould also inclu hould also inclu d have directed raining program ill be graduating project and be st and confidence	lent m lent si isation ctions ude ar applia (activ g in). A giver	ay ev hould in the a app cation vities At this a incr	entua be n e prac reciat to th should stage reasing	lly be wo nade awa tical skill ion of th e activity l be relev g respon. Wei	rking as a are of the ls essential e business which the vant to the lent should sibility for ght	LO-2, LO-3 LO-3, LO-4
3 4 Assessm Continu	management Practical Ski During this p for his/her fi processes. Directed obj The major po student inten- specialization be encourage independent the ents	a team and add ills eeriod, a ture e ective t art of th ds to fo to white ed to v work to Train	ler these circum in the organis ministration secu- the student shou mployment. It s <b>craining</b> the training shou bllow after the the student w vork on a real	stances, the stua sation. The stud fors of the organi ld receive instruc- hould also inclu- hould also inclu- ld have directed raining program ill be graduating project and be st and confidence raining Diary	lent m lent si isation ctions ude ar applia (activ g in). A giver	ay ev hould in the a app cation vities At this a incr	entua be n e prac reciat to th should stage reasing	lly be wo nade awo tical skill ion of th e activity l be rele , the stua g respon.	rking as a are of the ls essential e business which the business which the lent should sibility for ght %	LO-2, LO-3 LO-3, LO-4

## MODULES OFFERED BY THE DEPARTMENT OF MANAGEMENT OF TECHNOLOGY

Module	Odule Code     TM1111     Module Title     Business Process Management Foundation       odita     2     Loctures     2						
Credits		3		Lectures	3	Pre –	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments		– requisites	
Module	Aim:	To provide t	he fundamental kn	owledge on Business Pro	cess Man	agement (BPM)	)
	<b>g Outcomes</b> mpleting thi		students should be	able to:			
LO-1			lls of a business				
LO-2	*	e process app					
LO-3	•		ements of BPM				
LO-4	-		of BPM to busines	sses			
Syllabus	Outline	*					Learning Outcomes
1	Introducti	on to busines	s, its functions, and	l principles of manageme	nt		LO-1
2	Process ap	pproach and e	essentials required i	n managing processes in	organisat	tions (i.e.,	LO-2
	Governan	ce, structure)					
3				st developments, importa	nce of BF	PM in Business.	LO-3, LO-4
4			l elements of BPM				LO-3
				easuring performance, and	alysis, op	otimisation	
			tion, and technolog				
5		•	ions, and standards	working to elevate the B	PM prac	tice in the world	LO-4
	and in the	•					
			alue differentiation				
		ousiness proce	ess management, po	ossible career paths and re	equired co	ompetencies	
Assessm	ents						Weightage (%)
Continu	ous	Group repor	t and presentation (	(LO-1, LO-2, LO-3, LO-4	4)		30-50%
Assessm	ents						
End Sen		End of seme	ster written examir	nation (LO-1, LO-2, LO-3	3, LO-4)		70-50%
	ation 1ended Tex						
Examina							

	Code	TM1121	Module Title	Introduction to Busin	ness Pro	cess Excellence	(BPE)
		-		Methodologies			
Credits		2		Lectures	2	Pre –	None
GPA/NG	PA	GPA	- Hours/Week	Lab/Assignments		— requisites	
Module	Aim:	To provide t	he fundamental kno	owledge on Business Pro	cess Exc	ellence (BPE) m	ethodologies
Learning	g Outcome	5					
After con	npleting thi	s module, the	students should be	able to:			
LO-1	relate the	role of BPE	in business				
LO-2			ds used in BPM init	tiatives			
LO-3				g the deployment and sele	ection of	a suitable BPE r	nethod(s) for
	organisati		2				
Syllabus	U						Learning
							Outcomes
1	Evolution	of business p	process excellence n	nethodologies, latest dev	elopment	ts, and their	LO-1
	importanc	e to organisa	tions				
2	Introducti	on to the tren	ding BPE methods,	their benefits for busines	sses and t	factors to be	LO-2
	considere	d during depl	oyments				
3				suitable BPE method (s)			LO-3
4	Roles rela	ted to BPE, c	competencies require	ed for these roles and fut	ure caree	r opportunities	LO-1
5	Institutior	ns, associatior	ns, organisations, an	d standards working to e	levate th	e BPE practice	LO-1
	in the wor	ld and in the	country.				
Assessme	ents						Weightage (%)
Continue	ous	In-class act	ivities (LO-1, LO-2	, LO-3)			30-50%
Assessme	ents						
A55C55110		End of seme	ester written examin	ation (LO-1, LO-2, LO-3	5)		70-50%
End Sem	lester	End of Senie					1
		End of Senie					

Module	Code	TM1131	Module Title	Strategy Developm	ent		
Credits		3		Lectures	2.5	Pre –	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments	1	– requisites	
Module	Aim:	-	he essential unders	stating of the business st uting role of BPM	rategy dev	elopment proces	s, critical
Learnin	g Outcome	s					
After cor	npleting th	is module, the	students should be	able to:			
LO-1	explain th	ne business str	ategy and the strate	egy development proces	s		
LO-2	identify t	he critical suc	cess factors leading	g to successful strategy i	implement	ation and sustain	able competit
	advantag	e					
LO-3	explain th	ne role of BPN	1 in strategy imple	mentation and associate	d tools		
Syllabus	Outline						Learning
	1						Outcomes
1			0.	trategy development pro-	ocess		LO-1
2			trategy development				LO-1
3		nd the strategy orary developr	· ·	cess and key concepts, n	nethods, to	ols, and	LO-1
4	Factors a	ffecting succe	ssful strategy deplo	oyment and creating sus	tainable co	ompetitive	LO-2
	advantag	e					
5	How BPN	M can support	the strategy develo	opment and implementation	tion in an o	organisation and	LO-3
				ls of prioritizing improv	ement area	as by drill down	
	methods	(business leve	l, operational level	, and process level)			
Assessm	ents						Weightage (%)
Continu Assessm		In-class activ	vities, group report	and presentation (LO-1	l, LO-2, Lo	D-3)	30-50%
End Sen	nester	End of seme	ster written examin	nation (LO-1, LO-2, LO	-3)		70-50%
Examina	ation						
	ended Tex	ats					•

Module	Code	TM1141	Module Title	Key Business Functi	ons and	Role of BPM –	I
Credits		3		Lectures	3	Pre –	None
GPA/N	GPA	GPA	Hours/Week	Lab/Assignments		- requisites	
Module	Aim:	Management	(HRM)), their act	tanding of key business f ivities, important elemen PM practice in an organ	ts, and i		
	<b>g Outcome</b> mpleting thi		tudents should be	able to:			
LO-1	<b>.</b>		<u> </u>	e and implications towar		•	
LO-2	explain H	RM function a	nd its importance	and implications towards	s BPM p	oractice	
Syllabu	s Outline						Learning Outcomes
1		e e		ntroduction, key sub fun- towards BPM practice a		•	LO-1
2	Finance fu BPM prace		ground, key activ	ities, elements, roles, and	its imp	ortance towards	LO-2
Assessm	ients						Weightage (%)
Continu	ious	Finance relate	ed assignment (LC	<b>)</b> -1)			60-40%
Assessm	ients	HRM related	assignment (LO-2	2)			
End Ser Examin		End of semes	ter written examir	nation (LO-1, LO-2)			40-60%
	nended Tex	ts					1

Module	Code	TM1151	Module Title	Business Statistics a	nd Softw	vare Applicatio	ns
Credits		3		Lectures	1	Pre –	None
GPA/NG	PA	GPA	Hours/Week	Lab/Assignments	4	— requisites	
Module	Aim:	-		tanding on business stat e meaning out of data fo			applications and
Learning	g Outcome	s					
After con	npleting thi	s module, the	students should be	able to:			
LO-1	apply bas	ic statistics in	analysing business	problems			
LO-2	apply bas	ic probability t	heory in analysing	business problems			
LO-3	apply san	pling techniqu	es, estimation, and	d hypothesis testing in a	nalysing	business scenari	OS
LO-4	demonstra	ate the ability t	o use statistical so	ftware applications			
Syllabus	Outline						Learning Outcomes
1	Introducti	ion to statistics	and statistical soft	tware applications			LO-1, LO-4
3	Fundame	ntals of data vi	sualization				LO-1
	Chart sele	ection based of	n the type of data,	essential considerations	, building	g and	
	-	ition of graphs					
2	-	ve statistics					LO-1
4		of probability					LO-2
5	Distributi	-					LO-1
6		and sampling					LO-3
7		•	ation, interval esti	imation)			LO-3
8	Fundame	ntals of hypoth	esis testing				LO-3
Assessm	ents						Weightage (%)
Continuo Assessmo		In-class activ	ities, lab sessions,	assignments (LO-1, LC	0-2, LO-3	, LO-4)	60-40%
End Sem	ester	End of semes	ter written examin	ation (LO-1, LO-2, LO	-3)		40-60%
Examina	tion						
	ended Tex						

Module	Code	TM1211	Module Title	Managing Custome	er Expe	rience	
Credits		2		Lectures	1	Pre – requisites	None
GPA/N	GPA	GPA	Hours/Week	Lab/Assignments	2		
Module	Aim:	measuring ex	xperience, underst	nding on managing cu tanding customer life c and implications on Bl	ycle, to	ols and contemporary	
	ng Outcom mpleting t		ne students should	be able to:			
LO-1	explain r	nethods, metr	ics, and standards	related to customer ex	xperienc	e management	
LO-2	apply too	ols to manage	stages of custome	er life cycle	_		
LO-3	apply de	sign thinking	to develop / modi	fy service designs			
Syllabu	s Outline						Learning Outcomes
1		of understand ment opportui	<b>U</b>	perience, generating in	sights ar	nd identifying	LO-1
2		•		cycle and key consider by the BPM practition		each stage of the life	LO-2
3	Key met	rics related to	customer experie	ence management in va	rious in	dustries	LO-1
4			nal and local asso e management.	ciations, organisation,	standar	ds, and certification	LO-1
5		-	U U	ng and service design st, implement, storytell	ling with	ı data	LO-3
Assessn	nents						Weightage(%)
Continu Assessn		Ũ	Ũ	d assessing customer end assessing customer end and service design (	-	ce (LO-1, LO- 2)	60-40%
End Ser Examin		End of seme	ester written exan	nination (LO-1, LO-2,	LO-3)		40-60%
	nended To	exts					1

Module	Iodule Code         TM1221         Module Title         Business Process Maturity Models							
Credits		2		Lectures	2	Pre – requisites	None	
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments				
Module	Aim:	maturity, fre	quently used mat	anding on the business urity models, the proce on on BPM and BPE a	ess of un	dertaking business p		
Learnin	g Outcom		and the implication		•••••••••			
	0		ne students should	l be able to:				
LO-1	explain the	he evolution	of business proces	ss maturity assessment	and lev	els of maturity		
LO-2	•		ess maturity asses			,		
LO-3	assess th	e maturity of	a business proce	SS				
LO-4	examine	the implicati	ons of business p	rocess maturity assess	ment on	BPM and BPE pract	ice	
Syllabus	s Outline						Learning Outcomes	
1			process maturity nethods at each le	assessment, five levels evel of maturity	s of busi	ness process maturity	7 LO-1	
2	Understa	nd commonly	y used business p	rocess maturity assessr	nent mo	dels	LO-1	
3	Learn the	e process of u	ndertaking busine	ess process maturity as	sessmen	ıt	LO-2, LO-3	
4	Implicati	ons on busine	ess process matur	ity assessment on BPM	1 and BI	PE practice	LO-3, LO-4	
Assessm	ents						Weightage(%)	
Continu Assessm		Business pr	ocess maturity as	sessment (LO-1, LO-2	, LO-3,	LO-4)	60-40%	
End Sen		End of sem	ester written exar	nination (LO-1, LO-2,	LO-3, L	.0-4)	40-60%	
Examin								
Looomn	nended Te	exts						

Module	Code	TM1231	Module Title	Managing Business	S Perfor	mance	
Credits		2		Lectures	1	Pre – requisites	TM1131
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments	2	-	
Module	Aim:	To provide performanc		ledge towards underst	anding,	managing, and sustai	ning business
Learnin	g Outcon	nes					
After co	mpleting t	his module,	the students should	l be able to:			
LO-1	explain g	goal setting,	cascading process,	and key metrics appli	cable for	each business funct	ion
LO-2	develop	budgets					
LO-3	apply me	easures of pr	ocess capability in	various business cont	exts		
LO-4	demonst	rate the abili	ty to use technique	es to monitor and susta	in busin	ess performance	
Syllabus	Outline						Learning Outcomes
1	Goal set	ting and case	ading of goals				LO-1
2	Understa	anding key b	usiness metrics in	relation to each organi	sational	function (critical to	LO-1
				eas, key performance			
	-			ctor productivity metri	cs) calcu	lation	
3		-	nd resource alloca				LO-2
4			and short-term pr				LO-3
5	manager	nent techniq	<b>U</b> 1	each level and use of	visual p	erformance	LO-4
6			eward and engager				LO-4
Assessm			6.6	1.6			Weightage(%)
Continu Assessm		(LO-1, LO	<b>)</b> -2)	nd budget preparation		-	60-40%
		(LO-3, LO		g and reporting busine	ss perio	malle	
End Sen	nester	End of sen	nester written exar	nination (LO-1, LO-2,	LO-3, L	.O-4)	40-60%
Examin	ation						
	nended T	ovte					

Module	Code	TM1241	Module Title	Key Business Functi	ions and	l Role of BPM – II	
Credits		3		Lectures	3	Pre – requisites	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments		-	
Module	Aim:	Service Exce	ellence, and ICT),	standing of key busines their activities and imp BPM practice in an org-	ortant e	lements, interrelatio	
	g Outcom						
After co	mpleting t	his module, th	ne students should	l be able to:			
LO-1	explain r	narketing fund	ction and its impo	ortance and implications	s toward	s BPM practice	
LO-2	explain c practice	ce and implications	towards BPM				
LO-3	explain I	CT function a	und its importance	e and implications towa	rds BPN	I practice	
Syllabus	s Outline		Learning Outcomes				
1		ng, branding, a ons on BPM	and sales function	ı – key activities, roles,	key con	cepts, strategies, and	i LO-1
2			vice excellence fu lications on BPM	nction – key activities, I Practice	roles, k	ey methods, and	LO-2
3	ICT func	tion – key act	tivities, roles, key	concepts, and implicat	ions on	BPM	LO-3
Assessm	ents		· · · •				Weightage(%)
Continu Assessm			related assignmen	t (LO-1) cellence related assignn	pont (I (	2)	60-40%
A35C35III			assignment (LO-	e e e e e e e e e e e e e e e e e e e		J-2)	
End Sen	nester		<b>e</b>	nination (LO-1, LO-2, I	20-3)		40-60%
Examin	ation						
	nended To	ovte					•

Module	Code	TM1251	Module Title	Business Process Vi	sualiza	tion — I		
Credits		3		Lectures	2	Pre – requisites	None	
GPA/N	GPA	GPA	Hours/Week	Lab/Assignments	2			
Module	Aim:	-		nding on business proc , governance and use of		-		
	ng Outcom ompleting th		ne students should	l be able to:				
LO-1	explain b	ousiness proce	ess visualization					
LO-2	-			tools and software app	lication	5		
LO-3			-	tools and software appl				
LO-4	build Lev	vel 04 diagrar	ns using suitable	tools and software appl	lication	5		
LO-5	build Lev	vel 05 diagrar	ns using suitable	tools and software appl	lication	5		
Syllabu	s Outline						Learning Outcomes	
1	Levels of	Importance of process visualisation and different perspectives. Levels of business process visualization and characteristics / usage of each level Key considerations including process governance						
2		0	and use of visuali le software applic	sation; tools; developir ations	ng End 1	to End functional	LO-2	
3	Level 03	- objectives	and use of visuali	sation; tools - SIPOC/	COPIS	diagrams	LO-3	
4		0		sation; tools; developir table applications	ng proce	ess maps for single	LO-4	
5		<ul> <li>objectives</li> <li>applications</li> </ul>	and use of visuali	sation; tools; video ma	pping u	sing suitable	LO-4	
6			g check lists, worl le software applic	k instructions and guide ations	elines s	upporting Level 04	LO-5	
Assessm	-						Weightage(%)	
Continu	ious	Lab assign	ments based on p	rocess visualization for	levels	0-5		
Assessm		Ũ	0-2, LO-3, LO-4,				60-40%	
End Ser Examin		End of sem	ester written exan	nination (LO-1, LO-2, 1	LO-3, L	.O-4, LO-5)	40-60%	
	nended Te	exts					1	

Module	Code	TM1800	Module Title	Seminar I – Business	Proce	ess Management in F	ractice	
Credits		2		Lectures		Pre – requisites	None	
GPA/NO	GPA	NGPA	Hours/Week	Lab/Assignments	4			
Module	Aim:	To provide paindustry	ractical insights o	on contemporary practice	es in B	PM and future predic	tions on BPM	
	<b>g Outcom</b> mpleting th		e students should	be able to:				
LO-1	identify l	BPM practices	s in service and m	nanufacturing organisati	ons			
LO-2	identify t	he current tre	nds and developn	nent of BPM practice an	d futu	re predictions		
Syllabus	s Outline	Dutline						
1	BPM pra	ctices in selec	cted service and n	nanufacturing companie	s		LO-1	
2	Business	process visua	lization methods	and performance manag	gemen	t methods used in a	LO-1	
	selected	service and m	anufacturing orga	anisations				
3	Custome	r Experience	management prac	tices in organisations			LO-1	
4	Current t	rends and dev	velopments of the	BPM practice and futur	e pred	ictions	LO-2	
Assessm	ents						Weightage(%)	
Continu Assessm		Individual a	ssignment, group	report and presentation	(LO-1	l, LO-2)	100%	
End Sen							NA	
Examin		veta						
Kecomn	nended Te	exts						

Module	Code	TM2111	Module Title	Operations Manage	ement		
Credits		3		Lectures	3	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments		_	
Module	Aim:		udents to investign of operations	ate methods, systems, a	and pro	cedures for managing	g planned
	g Outcom						
After cor	npleting t	his module, t	he students should	l be able to:			
LO-1	explain k	ey concepts	of operations man	agement in both manuf	facturin	g and service organis	sations
LO-2	analyse t	he product /	service design and	l process selection			
LO-3	apply pla	anning and fo	precasting technique	ues to manage operation	ns		
Syllabus	Outline						Learning Outcomes
1	Fundame	entals of oper	ations manageme	nt			LO-1
2	Product /	service desi	gn and process sel	ection, value engineeri	ng		LO-2
3	Planning	and controll	ing in operations m	anagement			LO-3
Assessm	ents						Weightage(%)
Continu Assessm		In class act	ivities, group pres	sentation and report (LC	D-1, LC	D-2, LO-3)	60-40%
End Sen	nester	Written ex	amination (LO-1,	LO-2, LO-3)			40-60%
Examina	ation						
	nended Te	vtc					

Module	Code	TM2121	Module Title	BPE Methods – Lea	ın Mar	agement	
Credits		3		Lectures	2	Pre – requisites	TM1121
GPA/NO	SPA	GPA	- Hours/Week	Lab/Assignments	2	_	
Module	Aim:	-	a detailed understaneworks and tools	anding on lean manager	ment in	cluding its origins, ai	ms, key problem-
	g Outcom		he students should	l be able to:			
LO-1		-		S), its evolution, key ai	ms and	pillars	
LO-2			nent and its essent				
LO-3	discuss a	nd apply tool	ls and process imp	provement frameworks	under l	ean management	
Syllabus	Outline						Learning Outcomes
1	Introduct	tion to TPS					LO-1
2	Introduct	tion to lean m	nanagement				LO-2
3	Process i	mprovement	frameworks used	under lean managemen	nt		LO-3
4	Detail un	derstanding	of problem-solvin	g tools used by lean ma	anagem	ient	LO-3
Assessm	ents						Weightage (%)
Continu		Group proje	ect on lean tools a	nd improvements (LO-	1, LO-2	2, LO-3)	60-40%
End Sen Examina		End of sem	ester written exar	nination (LO-1, LO-2,	LO-3)		40-60%
Recomm	nended Te	exts					-

Module	Code	TM2131	Module Title	BPE Methods – Le	an Six S	Sigma I		
Credits		3		Lectures	2	Pre – requisites	TM1121	
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments	2			
Module	Aim:	•		nowledge on Lean Six em-solving tools disc	•	•	•	
Learnin	g Outcom	es						
After co	ompleting	this module,	the students shou	ld be able to:				
LO-1	explain t	he historical	perspective, gener	ations, and the concept	ot of Six	Sigma		
LO-2			f Lean Six Sigma	, ,		0		
LO-3	discuss th	he key proce	ss improvement fr	ameworks in Lean Siz	x Sigma			
LO-4	identify l	pasic probler	n-solving tools un	der DMAIC framewor	rk			
Syllabus	bus Outline							
							Outcomes	
1	Introduct	tion to Six Si	igma				LO-1	
2	Introduct	tion to Lean	Six Sigma				LO-2	
3	Problem	solving fram	neworks in Lean S	ix Sigma to match diff	ferent sit	uations	LO-3	
4		ental tools dis improve, and		n phase of the DMAIC	C framew	vork: define, measure	, LO-4	
Assessm	ents	_					Weightage(%)	
Continu Assessm		In-class act	tivities and group a	assignments (LO-1, LO	D-2, LO-	3, LO-4)	60-40%	
End Sen Examina		End of sem	nester written exam	nination (LO-1, LO-2,	LO-3, I	LO-4)	40-60%	
	nended Te	exts						

wiouuic	odule Code TM2141 Module Title Business Analysis and Diagnosis							
Credits		3		Lectures	2	Pre – requisites	None	
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	2			
Module		performance actions		anding on the process le focus areas for BP	-			
	<b>g Outcom</b> mpleting tl		he students should	be able to:				
LO-1	explain the	ne basics of t	ousiness analysis a	and relevance to BPN	1			
LO-2	apply bus	siness analys	is planning and el	icitation techniques t	o busines	s scenarios		
LO-3	apply pro	cess perform	ance analysis tech	hniques to business s	cenarios			
Syllabu	s Outline						Learning Outcomes	
1		ion to busine					LO-1	
2	As-is stat analysis	tus of busines	ss performance –	financial statement a	nalysis, v	oice of customer	LO-2	
3		nent analysis	and benchmarkin	g			LO-2	
4	Process p	erformance a	analysis	-			LO-3	
Assessm	ents						Weightage(%)	
Continu Assessm		In-class act 4)	ivities, group assi	gnment and presenta	tion (LO-	1, LO-2, LO-3, LO-	60-40%	
End Ser Examin		End of Sem	nester written exameter	mination (LO-1, LO-	2, LO-3, I	LO-4)	40-60%	
Recomm	nended Te	exts						

Modul	e Code	IM2151	Module Title	Business Process V	/isualiza	tion – II		
Credits	5	2		Lectures	1	Pre – requisites	TM1251	
GPA/N	IGPA	GPA	- Hours/Week	Lab/Assignments	2	_		
Modul	e Aim:	•		anding on Level 04 pr concepts, tools, and ap		-	– Value Stream	
Learni	ng Outcom	es						
After co	ompleting th	his module, t	he students should	l be able to:				
LO-1	explain th	he historical	background, key	concepts, metrics, and	objectiv	es of VSM mapping	and the concept of	
	value			-	-		-	
LO-2	build cur	rent and futu	re state VSM usir	ng suitable software ap	plication	18		
LO-3	discuss th							
Syllabı	us Outline	Learning						
1	Historica	l background	l of VSM and the	concept of value			LO-1	
2	Key cond	cepts, metrics	, and objectives o	of VSM			LO-1	
3				aps using suitable sof			LO-2	
	Difference	ces in using o	f symbols in serv	ices and manufacturir	ig applica	ations		
4	Mixed m	odel value st	ream mapping – u	inderstand implication	ns and co	nsiderations in	LO-3	
	developii	ng mixed mo	del maps					
Assessi	ments		_				Weightage(%)	
Contin	uous	Assignmen	t - Develop currer	nt and future state VS	M with r	ecommendations	60-40%	
Assessi	Assignment - Develop current and future state VSM with recommendations(LO-1, LO-2)							
End Se	emester	End of sem	ester written exar	nination (LO-1, LO-2	, LO-3)		40-60%	
Exami	nation							
Recom	mended Te	exts					1	

Module	Code	TM2800	Module Title	Seminar II – Busines	s Pro	cess Excellence in Pra	actice	
Credits		2		Lectures		Pre – requisites	None	
GPA/N	GPA	NGPA	- Hours/Week	Lab/Assignments	4	_		
Module	Aim:		practical insights of ellence (BPE) me	on the contemporary pra- thodologies	ctices,	and future predictions	s on Business	
	ng Outcom							
After co	mpleting t	his module, tl	he students should	l be able to:				
LO-1	identify ]	BPE methods	in service and ma	anufacturing organisatio	ns			
LO-2	identify of	current trends	and developmen	t of BPE methods and fu	iture p	redictions		
Syllabu	s Outline	Learning						
1	BPE prac	BPE practices used in selected service and manufacturing companies						
2	Lean ma	nagement and	l Lean Six Sigma	in a selected service and	l manı	ufacturing	LO-1	
	organisat	tions						
3	Current t		velopments of ope	erations management and	d futui	re	LO-2	
4	1		sis and diagnosis	practices in service and	manuf	facturing organisations	LO-1	
Assessm	nents			*			Weightage(%)	
Continu	ious	Individual a	assignment, group	report and presentation	(LO-	1, LO-2)	100%	
Assessm	nents							
End Ser	nester						NA	
Examin	ation							
Recomm	nended Te	exts						

Module	Code	TM2211	Module Title	Supply Chain Man	agement	ţ	
Credits		3		Lectures	3	Pre – requisites	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments		_	
Module	Aim:	-		nding on Supply Chain ired by BPM practition	0	ement (SCM) functio	n including
	g Outcom		ne students should	l be able to:			
LO-1	explain t	he SCM func	tion and its key co	omponents			
LO-2		<u> </u>		onship with SCM and I			
LO-3	discuss p	rocurement f	unction and its re-	lationship with SCM a	nd BPM		
Syllabus	Outline						Learning Outcomes
1	Introduction to SCM and role of BPM					LO-1	
2	SCM strategies						LO-1
3		<b>U</b>	<u> </u>	ing with global supply			LO-1
4		Ş	ů.	nd its relationship with			LO-2
5	Ű	sing logistics,		ction logistics, marketi ibution systems, outso	0 0		LO-2
6			ement function, p e link to SCM an	rocurement strategies : d role of BPM	including	g industrial buying,	LO-3
Assessm	ents						Weightage(%)
Continu Assessm		In-class acti	ivities, group repo	ort and presentation (L	0-1, LO	-2, LO-3)	60-40%
End Sen	nester	End of seme	ester written exan	nination (LO-1, LO-2,	LO-3)		40-60%
Examina	ation				-		
Recomn	nended Te	exts					1

Module	Code	TM2221	Module Title	Quality Manageme	nt		
Credits		3		Lectures	2	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	2		
Module	Aim:	-	a detailed understa porary theories	anding on quality man	agement	, its associated conce	pts, methodologies
Learnin	g Outcom	ies					
After co	mpleting t	his module,	the students should	l be able to:			
LO-1	explain t	he concepts	of quality manage	ment			
LO-2	discuss a	nd apply con	ntemporary theorie	es of quality manageme	ent		
LO-3	discuss t						
LO-4	demonstr	ons					
Syllabu	s Outline		Learning				
							Outcomes
1	Quality of	lefinitions ar	nd its evolution				LO-1
2	-			ey quality metrics			LO-1
3	Key qua	lity concepts	brought forward b	by Gurus of quality, co	ntempo	rary theories	LO-2
4	Ũ			quality leadership in a	Ű	sation	LO-3
5	Introduct	tion to qualit	y management sof	tware used in organisa	tions		LO-4
Assessm	ents						Weightage(%)
Continu Assessm		In-class ac	tivities and group	presentations (LO-1, I	.0-2, L0	D-3, LO-4)	40-60%
End Ser Examin		End of sen	nester written exar	nination (LO-1, LO-2,	LO-3)		60-40%
	ation nended Te	exts					

Code	TM2231	Module Title	<b>BPE</b> Methods – Lea	an Six S	ligma II	
	3		Lectures	2	Pre – requisites	TM2131
GPA	GPA	- Hours/Week	Lab/Assignments	2	_	
Aim:	To provide a	detailed understa	nding of Lean Six Sig	ma DM	AIC framework	I
g Outcon	nes					
-		ne students should	be able to:			
make us	e of concepts	and models of ex	perimental design in D	MAIC f	ramework	
apply su	itable statistic	al tools in differe	nt phases of DMAIC f	ramewo	rk	
explain o	design for Lea	ın Six Sigma				
o Outline						Learning
						Outcomes
DMAIC	LO-1					
introduc	nse optimisation					
DMAIC	Framework -	- analyse and imp	rove phase advance top	pics:		LO-1
fractiona	al factorial des	signs and response	e surface methodology	(dealing	g with curvature)	
		- analyse phase ad	vance topics:			LO-2
		• •	•			LO-2
Ų						
		•	•			LO-2
	-	-	-			
Introduc	tion to design	of Lean Six Sign	na – DMADV and IDC	OV meth	ods	LO-3
ents						Weightage(%)
ous	In-class act	ivities and take-he	ome assignments on st	atistical	concepts (LO-1, LO-	60-40%
ents	2, LO-3)					
	End of sem	ester written exan	nination (LO-1, LO-2,	LO-3)		40-60%
nended T	exts					
	mpleting t make us apply su explain of s Outline DMAIC introduc DMAIC fractiona DMAIC logistic in DMAIC general 1 DMAIC cluster a Introduc ents mester ation	GPA       GPA         Aim:       To provide a         ig Outcomes       mpleting this module, fl         make use of concepts       apply suitable statistic         apply suitable statistic       explain design for Leas         s Outline       DMAIC Framework –         DMAIC Framework –       fractional factorial des         DMAIC Framework –       logistic regression         DMAIC Framework –       logistic regression         DMAIC Framework –       logistic regression         DMAIC Framework –       general linear model, s         DMAIC Framework –       cluster analysis, dendri         Introduction to design       introduction to design         ments       In-class act         ious       In-class act         ients       2, LO-3)	GPA       GPA       Hours/Week         Aim:       To provide a detailed understa         g Outcomes       mpleting this module, the students should         make use of concepts and models of explain design for Lean Six Sigma         s Outline         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse and imprintroduction to design of experiments, f         DMAIC Framework – analyse phase ad         logistic regression         DMAIC Framework – analyse phase ad         general linear model, multivariate analy         DMAIC Framework – define phase adv         cluster analysis, dendrograms, k-means         Introduction to design of Lean Six Sign         ments         ments         End of semester written examation	GPAGPAHours/WeekLab/AssignmentsAim:To provide a detailed understanding of Lean Six Sigg Outcomesmpleting this module, the students should be able to:make use of concepts and models of experimental design in Dapply suitable statistical tools in different phases of DMAIC fexplain design for Lean Six Sigmas OutlineDMAIC Framework – analyse and improve phase advance topintroduction to design of experiments, full factorial design, anDMAIC Framework – analyse and improve phase advance topfractional factorial designs and response surface methodologyDMAIC Framework – analyse phase advance topics:logistic regressionDMAIC Framework – analyse phase advance topics:cluster analysis, dendrograms, k-means analysisIntroduction to design of Lean Six Sigma – DMADV and IDOtentscluster analysis, dendrograms, k-means analysisIntroduction to design of Lean Six Sigma – DMADV and IDOtentsclustertentst	GPA       Hours/Week       Lab/Assignments       2         Aim:       To provide a detailed understanding of Lean Six Sigma DM         g Outcomes       mpleting this module, the students should be able to:         make use of concepts and models of experimental design in DMAIC framewore         explain design for Lean Six Sigma         SOutline         DMAIC Framework – analyse and improve phase advance topics:         introduction to design of experiments, full factorial design, and response         DMAIC Framework – analyse and improve phase advance topics:         fractional factorial designs and response surface methodology (dealing DMAIC Framework – analyse phase advance topics:         logistic regression         DMAIC Framework – define phase advance topics:         cluster analysis, dendrograms, k-means analysis         DMAIC Framework – define phase advance topics:         cluster analysis, dendrograms, k-means analysis         Introduction to design of Lean Six Sigma – DMADV and IDOV method         ments         mous       In-class activities and take-home assignments on statistical 2, LO-3)         mester       End of semester written examination (LO-1, LO-2, LO-3)	GPA       Hours/Week       Lab/Assignments       2         Aim:       To provide a detailed understanding of Lean Six Sigma DMAIC framework         g Outcomes       mpleting this module, the students should be able to:         make use of concepts and models of experimental design in DMAIC framework         apply suitable statistical tools in different phases of DMAIC framework         explain design for Lean Six Sigma         SOUtline         DMAIC Framework – analyse and improve phase advance topics:         introduction to design of experiments, full factorial design, and response optimisation         DMAIC Framework – analyse and improve phase advance topics:         fractional factorial designs and response surface methodology (dealing with curvature)         DMAIC Framework – analyse phase advance topics:         logistic regression         DMAIC Framework – analyse phase advance topics:         cluster analysis, dendrograms, k-means analysis         DMAIC Framework – define phase advance topics:         cluster analysis, dendrograms, k-means analysis         Introduction to design of Lean Six Sigma – DMADV and IDOV methods         tents         nous       In-class activities and take-home assignments on statistical concepts (LO-1, LO-2, LO-3)         mester       End of semester written examination (LO-1, LO-2, LO-3)

Module Code 1		TM2241	Module Title	BPE Methods – To	tal Proc	ductive Maintenance	e
Credits	Credits 3			Lectures	2	Pre – requisites	TM1121
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	2		
Modul	e Aim:	To provide t	he essential under	rstanding of key conce	pts in To	otal Productive Main	tenance (TPM)
	ng Outcom		he students should	l be able to:			
LO-1		he fundament					
LO-2	Ĩ	explain key concepts of TPM					
LO-3	discuss the steps of TPM implementation						
Syllabı	labus Outline						Learning Outcomes
1	Evolutio	n of maintena	ance and TPM int	roduction			LO-1
2	Japanese	e 5S+ workpla	ace organisation p	ractice			LO-2
3	Loss stru	cture and the	concept of equip	ment efficacy			LO-2
4	Introduc	tion to eight p	oillars of TPM				LO-2
4	Steps of	successful im	plementation of 7	FPM and critical succe	ss facto	rs	LO-3
Assessi	nents						Weightage (%)
	tinuous In-class activities and Group			Presentation (LO-1, L	.0-2, L0	D-3)	40-60%
End Se	<b>End Semester</b> End of semester written exam			nination (LO-1, LO-2,	LO-3)		60-40%
Exami	nation						
Recom	mended To	exts					•

Module	Code	TM2251	Module Title	BPM Software Ap	plication	s – I	
Credits		3		Lectures	2	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	2	_	
Module	Aim:	To provide b	asic knowledge a	nd skills on BPM soft	ware app	lications	
Learnin	g Outcom	ies					
After co	mpleting t	his module, th	ne students should	l be able to:			
LO-1	explain I	BPM software	landscape and th	eir benefits			
LO-2	identify t	factors to be c	onsidered in sele	cting a BPM software	applicati	on / vendor and imp	lementation
LO-3	demonst	rate the ability	y to use basic feat	ures of selected BPM	software	applications	
Syllabus	yllabus Outline						Learning
							Outcomes
1				ons and their benefits			LO-1
2	Factors t vendor	o be consider	ed in selecting an	d implementing a BPI	M softwa	re application /	LO-2
3	Basic fea	tures and fun	ctions of selected	BPM software applic	ations		LO-3
Assessm	ents						Weightage(%)
Continu Assessm		Lab assessn	nents on selected	BPM software application	ations (L	0-1, LO-2, LO-3)	60-40%
End Sen Examin		End of seme	ester written exan	nination (LO-1, LO-2)	)		40-60%
Recomm	nended Te	exts					•

Module Code		TM2261	Module Title	Change Manageme	ent		
Credits		2		Lectures	2	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments		-	
Module	Aim:	To provide	the essential unde	rstanding required on	managing	g change for BPM pr	ofessionals
	g Outcon						
After co			he students should				
LO-1	•	•	nange managemen				
LO-2	-		<u> </u>	strategies for change			
LO-3	-	a comprehens	sive change manag	gement programme an	d plans f	or managing stakeho	<u>.</u>
Syllabu						Learning Outcomes	
1	Fundamentals of organisational behaviour and change management					LO-1	
2	Drivers of change and identifying change requirements, impact, and the role of BPM professionals					LO-1	
3	Tradition	nal and conter	mporary strategies	for change			LO-2
4	-	ntation of character g stakeholder		change management p	rogramm	nes, and strategies for	LO-3
5	Commu	nicating chang	ge and role of soc	ial media in change ma	anageme	nt	LO-3
6	Managir	g resistance t	o change		-		LO-3
Assessm	ents	-					Weightage(%
Continu Assessm		2, LO-3)	analysis – succes	ping a change manage sful and failed change	•		40-60%
End Sen	nester			nination (LO-1, LO-2,	LO-3)		60-40%
					,		
Examin		exts					1

Module Code TM3		TM3111	Module Title	Improvement Proje	Improvement Project Management					
Credits		3		Lectures	2	Pre – requisites	None			
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	2	-				
Module	Aim:	To provide k	nowledge and ski	ills on project managen	nent in	ousiness process imp	rovement projects			
Learnin	g Outcom	ies								
After con	npleting t	his module, tł	ne students should	l be able to:						
LO-1	explain c	concepts of pr	oject managemen	t						
LO-2	apply project management tools and techniques in stages of project life cycle									
LO-3	demonst	demonstrate the use of project management software application								
Syllabus	Outline					Learning				
							Outcomes			
1	•	10	ů.	a discipline, key conce	epts, an	d life cycle	LO-1			
2	Improve	ment project i	nitiation (using s	oftware application)			LO-2, LO-3			
3		ment project p application)	planning and proj	ect management tools a	nd tech	niques (using	LO-2, LO-3			
4	Improve	ment project i	implementation a	nd sustaining gains(usi	ng softw	vare application)	LO-2, LO-3			
Assessm	ents						Weightage(%)			
Continu Assessm	-			nent project management (LO-1, LO-2, LO-3)			60-40%			
End Semester End of semester written exam			nination (LO-1, LO-2)			40-60%				
Examination										
	nended To	4								

Module	Code	TM3121	Module Title	Process Mining			
Credits		3		Lectures	2	Pre – requisites	None
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	2		
Module	Aim:	<u> </u>	letail understandin ards BPE practice	ng on process mining a	ind relat	ed software applicati	ons outlining the
	<b>g Outcon</b> mpleting t		he students should	l be able to:			
LO-1	explain t	the fundamen	tals of process min	ning			
LO-2	identify impleme		considered in selec	cting a process mining	softwar	re application / vendo	or and
LO-3	demonst	rate the abilit	y to use selected p	process mining softwar	e applic	ations	
LO-4	evaluate	information	generated by proce	ess mining software ap	plicatio	ns for BPE activities	
Syllabu	bus Outline						Learning Outcomes
1	Introduc	tion to proces	s mining				LO-1
				lopments, and contribu			
2			are applications/ve implementations	endors, criteria for sele	ection ar	nd features,	LO-2
3	Process	mining softw	are applications in	simulated environment	nts		LO-3
4	Assess in	nformation pr	ovided by the pro	cess mining applicatio	ns for B	PE activities.	LO-4
Assessm	nents						Weightage(%)
Continu	ious	In-class act	ivities and lab ass	essments on process m	nining co	oncepts using	60-40%
Assessm	nents			LO-2, LO-3, LO-4)	U		
End Ser	nester	End of sem	ester written exan	nination (LO-1, LO-2,	LO-4)		40-60%
					,		
Examin							1

Module Code TM313		TM3131	Module Title	<b>Operations Research – I</b>					
Credits		3		Lectures	2	Pre – requisites	None		
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	2				
Module	Aim:	To introduce	e fundamental the	ories and techniques in	operati	ons research			
Learnin	g Outcon	ies							
	0		he students should	l be able to:					
LO-1	identify	the importanc	e of operations re	search for business de	cisions				
LO-2	-	-	-	or practical application					
LO-3	apply op	erations resea	rch techniques to	obtain optimal solutio	ns using	g computer solvers			
Syllabu	s Outline						Learning		
1	Introduc	tion to operat	ions research				LO-1		
2	Linear p	rogramming a	algorithms				LO-2, LO-3		
3		programming					LO-2, LO-3		
4		optimisation					LO-2, LO-3		
5	Dynami	c programmin	g in deterministic	and stochastic environ	nments		LO-2, LO-3		
Assessm	nents						Weightage(%)		
Continu	ious	In-class act	ivities using com	puter tools (LO-1, LO-	2, LO-3	3)	60-40%		
Assessm	Assessments Group report (LO-2, LO-3)								
End Ser		Written exa	mination (LO-1,	LO-2, LO-3)			40-60%		
Examin									
Recomm	nended T	exts							

Module	Code	TM3141	Module Title	Industrial Revoluti	on and	the Future of BPM	
Credits		2		Lectures	2	Pre – requisites	None
GPA/N	GPA	GPA	– Hours/Week	Lab/Assignments			
Module	Aim:	•	he essential under on the future of B	rstanding on industrial PM	revoluti	ons, the associated co	oncepts, tools, and
Learnin	g Outcom	ies					
After co	mpleting t	his module, tl	he students should	l be able to:			
LO-1	explain d	lifferent indu	strial revolutions				
LO-2	explain t practice	he technologi	cal dimensions li	nked to current industr	ial revol	utions and how they	impact BPM
LO-3	assess contemporary and trending concepts shaping the next industrial revolution						
Syllabu	bus Outline						Learning Outcomes
1	Introduc	tion to indust	rial revolutions				LO-1
			-	associated technologie			
2		ogical dimens act BPM prac		rent industrial revoluti	on and h	now these dimensions	LO-2
3	-	orary and tre impact on B	<b>U</b>	naping the next industr	ial revol	ution and their	LO-3
Assessm							Weightage(%)
Continu Assessm				on (LO-1, LO-2, LO-3)			40-60%
End Ser		End of sem	ester written exar	nination (LO-1, LO-2,	LO-3)		60-40%
Examin							
Recomm	nended To	exts					

Module	e Code	TM 3151	Module Title	BPM Software App	olicatio	ns – II		
Credits	6	3		Lectures	1	Pre – requisites	TM2251	
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	4	_		
Module	e Aim:	To provide a	dvanced knowled	lge and skills on BPM	softwar	e applications		
Learnin	ng Outcon	nes						
After co	ompleting t	his module, tl	he students should	l be able to:				
LO-1	demonst environr		y to use advanced	features of selected B	PM sof	tware applications in s	simulated	
LO-2	evaluate	evaluate how BPM software applications can support BPE activities						
Syllabu	labus Outline							
1	Advance	ed features and	d operations of se	lected BPM software a	pplicat	ions and	LO-1	
		-	implementation					
2	BPM so	ftware applica	ations in a simulat	ed environment			LO-1	
3	Assess in	nformation pr	ovided by the BP	M applications for BPI	E activi	ties	LO-2	
Assessn	nents						Weightage(%)	
Contin	uous	In-class act	ivities and lab ass	sessments on application	n of BI	PM software for BPE	100%	
Assessn	nents	activities (I	LO-1, LO-2)					
End Se	mester						NA	
Examir	nation							
Recom	mended T	exts						

Module Code TM		TM3211	Module Title	Qualitative and Quantitative Forecasting					
Credits		2		Lectures	1	Pre – requisites	TM2111		
GPA/NGPA		GPA	– Hours/Week	Lab/Assignments	2	_			
Module	Aim:	•		lge and skills on qualit ness decision making	ative an	d quantitative forecas	ting methods and		
Learnin	g Outcom	ies							
After co	mpleting t	his module, t	he students should	d be able to:					
LO-1	apply qu	antitative for	ecasting methods	to business problems					
LO-2			÷	o business problems					
LO-3	make use	e of forecasti	ng methods to pre	dict resources in a bus	iness or	ganisation			
Syllabu	s Outline						Learning Outcomes		
1	Introduc	tion to foreca	sting methods and	l importance in busine	ss applie	cations	LO-1, LO-2		
2	Quantita	tive forecasti	ng methods - time	e series analysis			LO-1		
3	Quantita	tive forecasti	ng methods – cau	sal analysis techniques			LO-1		
4	Qualitati	ve forecastin	g methods				LO-2		
5		0	culation using soft				LO-1		
6	Demand	and capacity	forecasting for a	n organisation using so	ftware		LO-3		
Assessm	nents						Weightage(%)		
ContinuousIn-class activities, group assigAssessments3)		gnment on forecasting	method	ls (LO-1, LO-2, LO-	60-40%				
End Ser Examin		End of sem	nester written exar	nination (LO-1, LO-2,	LO-3)		40-60%		
	nended To	exts					1		
		<b>*</b>							

Module Code		TM3221	Module Title	Data Science for B	PM	Data Science for BPM					
Credits		3		Lectures	2	Pre – requisites	TM1151				
GPA/N	GPA	GPA	Hours/Week	Lab/Assignments	2	_					
Module	Aim:	To provide a	an understanding of	on foundations and ap	plication	s of data science for	BPM				
	<b>g Outcom</b> mpleting t		he students should	l be able to:							
LO-1	explain t	he fundamen	tal concepts of da	ta science and its bene	efits to B	PM practice					
LO-2				ning languages/applic							
LO-3	explain the mathematical basis for the techniques used in machine learning										
LO-4		propose appropriate computational intelligence techniques for a given business problem a learning tools to find solutions to it									
Syllabu	s Outline						Learning Outcomes				
1	Introduc	tion to Data S	Science				LO-1				
	Evolutio practice	n, associated	concepts, popular	tools and techniques	and the l	benefits for BPM					
2		ls of program	ming languages/a	pplications used in da	ta scienc	e	LO-2				
3		ion of selecte in BPM / BI		ols and languages to m	nake mea	ning out of data and	LO-3, LO-4				
Assessm	nents						Weightage(%)				
Continu Assessm		In-class act	ivities, mini proje	ect (LO-1, LO-2, LO-3	3, LO-4)		60-40%				
End Ser	nester	End of sem	ester written exar	nination (LO-1, LO-3	, LO-4)		40-60%				
Examin											
	nended To	owto									

Module	Code	TM3241	Module Title	ERP Systems and A	ERP Systems and Applications					
Credits		3		Lectures	2	Pre – requisites	None			
GPA/N	GPA	GPA	Hours/Week	Lab/Assignments	2					
Module	Aim:	To provide a BPM profess		anding of ERP systems	, their c	operation, and applicat	ions important f			
Learnin	g Outcon	ies								
After co	mpleting t	his module, tl	he students should	d be able to:						
LO-1	discuss f	eatures/functi	ions and benefits	of ERP systems and ap	plicatio	ons				
LO-2	evaluate	ERP systems	and select suitab	le systems for an orgar	isation					
LO-3	demonst	rate the ability	y to use selected E	ERP software application	ns in bu	siness environments				
Syllabu	abus Outline					Learning				
							Outcomes			
1	Introduc	tion to ERP s	ystems and applic	cations			LO-1			
2	Evaluati	ng ERP syste	ms, selection, and	l implementation			LO-1			
3	ERP sof	tware and mo	dules and using th	nem for BPM activities			LO-2			
4	Extractin	ng information	n from ERP system	ms and using them for	BPE ac	tivities	LO-3			
Assessm	ients						Weightage(%			
Continu Assessm		In-class act	ivities and lab ass	signments using ERP se	oftware	(LO-1, LO-2, LO-3)	60-40%			
End Ser Examin		End of sem	ester written exan	nination (LO-1, LO-2)			40-60%			
Recom	nended T	exts								

Module Code		TM3251	Module Title	Business Process M	odellin	g and Simulation – ]	[
Credits		2		Lectures	1	Pre – requisites	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments	2		
Module	Aim:	To provide l	knowledge and ski	ills on modelling busin	ess pro	cesses	
Learnin	g Outcom	ies					
After co	mpleting t	his module, t	he students should	l be able to:			
LO-1	identify of	different busi	ness process mod	elling languages			
LO-2		BPMN) diagrams in d	ifferent business				
	scenarios	5					
LO-3	demonstrate the ability to use advanced process modelling using BPMN						
LO-4	identify t	the role of sir	nulation in busine	esses			
Syllabus	Outline						Learning
							Outcomes
1			elling languages				LO-1
2	Business	process mod	lelling notation dia	agrams			LO-2
3		1	0 0	ware applications			LO-3
4	Introduct	tion to busine	ess process simula	tion			LO-4
Assessm	ents						Weightage(%)
Continu Assessm				project (LO-1, LO-2,	LO-3, I	.0-4)	60-40%
End Sen Examina		End of sem	ester written exan	nination (LO-1, LO-2,	LO-3, I	LO-4)	40-60%
	ation iended Te	vte					
Recolu	ienueu 16	EAUS					

Module	Code	TM3261	Module Title	Business Research	Method	s	
Credits		3		Lectures	3	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	s		
Module	Aim:	To provide k	nowledge and sk	ills to conduct business	s researc	h with theoretical an	d practical rigour
	g Outcom mpleting t		he students should	d be able to:			
LO-1	identify a	and explain th	ne process of cond	ducting business resear	ch		
LO-2	demonst	rate the abilit	y to use academic	e writing			
LO-3	evaluate	and propose	a research design	to a given research pro	blem		
Syllabus	o Outline						Learning Outcomes
1	Introduc	tion to busine	ess research				LO-1
2	Process of	of conducting	research				LO-1
3	Literatur	e review					LO-2
4		n designs					LO-3
5	Academi	ic writing and	l referencing				LO-2
Assessm	ents						Weightage(%)
Continu Assessm		In-class act	ivities and individ	dual assignments			100%
End Sen Examina							NA
Recomn	nended To	exts					

Credits GPA/NG	DA	2	Iodule Code         TM3711         Module Title         Operations Research – II				
GPA/NG	РА	Hours/Week				Pre – requisites	TM3131
	/NGPA GPA Hours/Week Lab/Assignments 2					_	
Module	Aim:	To enhance related appli		on operations research	metho	ods and techniques to	solve business
Learning	g Outcom	es					
After con	npleting th	his module, t	he students should	l be able to:			
LO-1	apply op	erations resea	arch techniques fo	r effective decision ma	king in	multi-criterion scena	rios
LO-2	make use	e of mathema	tical application n	nodels to solve manage	rial dec	cision-making probler	ns
LO-3	appraise	the nature of	uncertainty in dee	cision making using ma	themat	ical modelling applic	ations
Syllabus	Outline						Learning
							Outcomes
1	Inventor	y theory					LO-2
2	Markov o	decision proc	ess				LO-3
3	Applicati	ions of queui	ng theory				LO-2, LO-3
4	Multi-cri	teria decision	n making				LO-1, LO-2
Assessm	ents						Weightage(%)
Continue Assessme		In-class ass	signments and lab	assignments (LO-1, LO	D-2, LC	)-3)	60-40%
End Sem Examina		End of sem	ester written exan	nination (LO-1, LO-2,	LO-3)		40-60%
Recomm	ended Te	exts					1

Module	e Code	TM4111	Module Title	Management Syster	n Stano	dards and Assuring	Process
				Governance			
Credits	5	2		Lectures	2	Pre – requisites	None
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments			
Module	e Aim:	To provide t	he essential under	rstanding on manageme	ent syste	em standards and pro	cess governance
Learni	ng Outcom	ies					
After co	ompleting t	his module, t	he students should	d be able to:			
LO-1	explain 1	nanagement s	system standards	and the accreditation pr	ocess		
LO-2	•	ě		anagement system stand			
LO-3		-		governance adhering to		uirements of the ma	nagement system
	standard	s				-	
Syllabu	s Outline						Learning
							Outcomes
1	Introduc	tion to manag	gement system sta	ndards			LO-1
2				r requirements (e.g., IS			LO-2
	EMS, IS	O 45001 OH	SAS, ISO 22000 I	FSMS) and role played	by BPN	A professionals	
3	Assuring	g process gov	ernance and mana	gement system auditing	5		LO-3
Assessm	nents						Weightage(%)
Contin Assessm		In-class act	ivities and case st	udy analysis (LO-1, LO	D-2, LC	9-3)	40-60%
End Se		End of sem	ester written exar	nination (LO-1, LO-2, I	LO-3)		60-40%
Examir							
Recom	mended To	exts					

Module	Code	TM4121	Module Title	Robotic Process Au	tomati	on and Applications	
Credits		3		Lectures	2	Pre – requisites	None
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	2	_	
Module	Aim:	To provide the use in BPM	he essential under	standing of Robotic Pr	ocess A	utomation (RPA), its	applications, and
Learnir	ng Outcom	ies					
			he students should	l be able to:			
LO-1	examine	RPA and its	use in BPM				
LO-2	evaluate	selected RPA	software applica	tions and their usage			
LO-3			y to use RPA soft				
Syllabu	s Outline						Learning Outcomes
1	Introduc	tion to RPA a	and the benefits to	wards BPM			LO-1
2	Evaluate	RPA Softwa	re applications an	d their usage			LO-2
3	Use of se	elected RPA s	software applicati	on			LO-3
Assessn	nents						Weightage(%)
Continu Assessn				software tool to automa LO-1, LO-2, LO-3)	ate a pr	ocess in a service or	60-40%
End Ser	nester			nination (LO-1, LO-2)			40-60%
Examin	ation						
Recom	nended T	exts					

Modul	e Code	TM4131	Module Title	Business Process O	utsourc	ing and Shared Serv	vices
Credits	5	3		Lectures	2	Pre – requisites	None
GPA/N	PA/NGPA GPA Hours/Week Lab/Assignments 2						
Module	e Aim:	*	detailed understand the role of BPI	anding on Business Pro M	cess Oi	utsourcing (BPO) and	shared service
Learni	ng Outcom	ies					
After co	ompleting t	his module, tł	ne students should	d be able to:			
LO-1	explain t	he fundament	als of BPO and s	hared services			
LO-2	-			nd shared service opera	tions in	the context of Sri La	nkan BPO indust
LO-3	evaluate	the role of BI	PM professionals	in BPO and shared ser	vice op	erations	
Syllabu	us Outline						Learning Outcomes
1	Introduc	Introduction to business process outsourcing and shared service practice					LO-1
2	Sri Lank	Sri Lankan BPO industry and the potential sectors for future growth					LO-2
3			ethods, value ena d service operatio	abling models and best	practice	es in business process	LO-3
4	Factors t	<u> </u>	ed when establish	ning a BPO or shared so	ervice o	peration and role to	LO-3
Assessr	1	<u> </u>					Weightage(%)
Contin Assessr		In-class acti	ivities, group repo	ort and presentation (L	0-1, LC	D-2, LO-3)	60-40%
End Se Examii	emester	End of seme	ester written exar	nination (LO-1, LO-2,	LO-3)		40-60%
	mended Te	exts					1

Module	Code	TM4151	Module Title	Business Process Modelling and Simulation – II					
Credits		2		Lectures	1	Pre – requisites	TM3251		
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	2				
Module	Aim:	To provide k problems	nowledge and sk	ills for business process	s mode	lling and simulation t	o solve real world		
	<b>g Outcom</b> npleting t		he students should	l be able to:					
LO-1	relate sta	tistical conce	pts to business pr	ocess simulation					
LO-2	formulat	e discrete-eve	ent simulation mo	dels for various busines	ss scen	arios using simulatior	n software		
LO-3	assess sin	nulation resu	lts and recommer	nd appropriate solutions	5				
Syllabus	Outline						Learning Outcomes		
1	Statistica	l concepts as	sociated with sim	ulation			LO-1		
2	Modellin	g and simula	ting business proc	esses			LO-2		
3	Simulati	on data analy	sis				LO-3		
Assessm	ents						Weightage(%)		
Continu Assessm		In-class act	ivities and mini p	roject (LO-1, LO-2, LO	D-3)		70-50%		
End Sen	nester	End of sem	ester written exar	nination (LO-1, LO-2, ]	LO-3)		30-50%		
Examina	ation								
	nended Te	exts							

Module	Code	TM4901	Module Title	R & D Project			
Credits		4		Lectures		Pre – requisites	TM3261
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments	8	-	
Module	Aim:		udents to propose owledge, and anal	solutions to real world ytical skills	busines	s problems using the	ir theoretical and
Learnin	g Outcom	es					
After co	mpleting the	his module, tl	ne students should	d be able to:			
LO-1	identify a	a business pro	blem and its cont	text			
LO-2	formulat	e the problem	into a viable pro	ject proposal			
LO-3			elevant literature				
LO-4	design ar	nd apply an a	ppropriate researc	h design			
LO-5	discuss f	indings and r	ecommend solution	ons to problems identified	ed		
Syllabu	o Outline						Learning Outcomes
1	Problem	identification	and formulation				LO-1, LO-2
2		of literature					LO-3
3	Design th	ne research pi	roject				LO-4
4		ection and an					LO-4
5	Discussio	on of findings	and recommendation	ations			LO-5
Assessm	ents						Weightage(%)
Continu Assessm		Detailed pro	• ·	eport, oral presentation,	and viv	va (LO-1, LO-2, LO-	100%
End Sen	nester						NA
Examin	ation						
Recomm	nended Te	exts					

	Code	TM4211	Module Title	Business Excellence	e Model	s and Awards	
Credits		2		Lectures	2	Pre – requisites	None
GPA/NO	GPA	GPA	- Hours/Week	Lab/Assignments			
Module	Aim:	To provide a	an understanding of	on key business excelle	ence mo	dels, award criteria a	nd frameworks
Learnin	g Outcon	nes					
After con	mpleting t	his module, t	he students should	l be able to:			
LO-1	discuss b	ousiness exce	llence models				
LO-2	discuss t	he application	n of various busin	ess excellence awards			
Syllabus	s Outline						Learning Outcomes
1	Introduc	tion to the bu	siness excellence	models and their aspir	ations		LO-1
2	Malcoln	n Baldrige Na	tional Quality Aw	ard (MBNQA) frame	work and	l National Quality	LO-2
	`	NQA) framev					
	-		ation, and requirer				
3	-		of. Ayano TQM E				LO-2
	-		ation, and requirer	nents			
4		Productivity					LO-2
	-		ation, and requirer				
5				ilarities (such as Europ			LO-2
	-		-	nt, Taiki Akimoto 5S A			
	-		cle, Lean Six Sigi	na Awards, APQO Gl	obal Per	formance Excellence	
<u> </u>	Awards)						
Assessm	ients						Weightage(%)
Continu Assessm		In-class act	tivities and group	assignments (LO-1, Lo	D-2)		40-60%
End Sen		End of sem	ester written exar	nination (LO-1, LO-2)			60-40%
Examina							
	nended T	exts					

Module	Code	TM4221	Module Title	Managing Innovation	on		
Credits		3		Lectures	3	Pre – requisites	None
GPA/NO	GPA	GPA	Hours/Week	Lab/Assignments		_	
Module	Aim:	To provide the	ne essential under	standing on managing	innova	tion in organisation	
	<b>g Outcon</b> npleting t		e students should	l be able to:			
LO-1	explain k	key concepts in	n managing inno	vation			
LO-2	discuss t	he process of	innovation and a <sub>l</sub>	oply tools in the stages	of inno	vation process	
LO-3	assess fa	ctors contribu	ting to successful	innovation manageme	nt		
Syllabus	Outline						Learning Outcomes
1	Introduc	tion to managi	ing innovation				LO-1
2	The proc	ess of innovat	tion				LO-2
3	Ideation	and use of ide	ation tools				LO-2
4	Key eler	nents of mana	ging innovation;	creating and sustaining	culture	e enabling innovation	LO-3
Assessm	ents						Weightage(%)
Continu Assessm		In-class acti	vities, group repo	ort and presentation (LC	D-1, LC	D-2, LO-3)	40-60%
End Sen Examina		End of seme	ester written exan	nination (LO-1, LO-2, I	LO-3)		60-40%
Recomm	nended To	exts					

LO-1 den ach LO-2 ana LO-3 proj	organisation comes ing this module, onstrate how tec eving competitiv yse the issues in ose technology petitive advantag	n the students should hnology is embodi- ve advantage volved in the proc management stra	Lectures Lab/Assignments ills to make key decisied d be able to: ied in an organisation cess of technology for tegies for both organ	and the or	capabilities required acquisition, and tec	to exploit it for hnology transfe
Module Aim Learning Ou After complet LO-1 den ach LO-2 ana LO-3 proj con	To provide organisation accomes ing this module, onstrate how tec eving competitiv yse the issues in ose technology petitive advantag	knowledge and sk n the students should chnology is embod ve advantage volved in the proc management stra	d be able to: ied in an organisation	and the or	capabilities required acquisition, and tec	to exploit it for hnology transfe
Learning Ou After complet LO-1 den ach LO-2 ana LO-3 proj con	organisation comes ing this module, onstrate how tec eving competitiv yse the issues in ose technology petitive advantag	n the students should hnology is embodi- ve advantage volved in the proc management stra	d be able to: ied in an organisation cess of technology for	and the or	capabilities required acquisition, and tec	to exploit it for hnology transfe
After complete LO-1 den ach LO-2 ana LO-3 proj con	ing this module, onstrate how tec eving competitiv yse the issues in ose technology petitive advantag	chnology is emboding we advantage wolved in the proc management stra	ied in an organisation cess of technology for	ecasting,	acquisition, and tec	chnology transfe
LO-1 dem ach: LO-2 ana LO-3 proj com	onstrate how tec eving competitiv yse the issues in ose technology petitive advantag	chnology is emboding we advantage wolved in the proc management stra	ied in an organisation cess of technology for	ecasting,	acquisition, and tec	chnology transfe
LO-2 ana LO-3 proj com	eving competitiv yse the issues in ose technology petitive advantag	ve advantage volved in the proc management stra	cess of technology for	ecasting,	acquisition, and tec	chnology transfe
LO-2 ana LO-3 proj con	yse the issues in ose technology petitive advantag	volved in the proc management stra				
LO-3 proj com	ose technology petitive advantag	management stra				
con	petitive advantag	e	tegies for both organ	isations	and nations to secu	ire sustainable
Syllabus Out	ine					
						Learning
						Outcomes
1 Fun	lamentals of tech	hnology managem	ent			LO-1
2 Ove	rview and pattern	ns of technology de	evelopment			LO-1
3 Pred	icting and analy	sing technology fu	tures			LO-2
4 For	nulating technolo	ogy strategy for co	mpetitive edge and pr	otecting	innovations	LO-2, LO-3
5 Nat	onal innovation	system				LO-3
Assessments						Weightage(%)
Continuous Assessments	Group pro	jects and in-class a	activities (LO-1, LO-2	2, LO-3)		40-60%
End Semeste	End of ser	nester written exar	mination (LO-1, LO-2	, LO-3)		60-40%
Examination						
Recommend	d Texts					

Module	Code	TM4711	Module Title	Data Protection and	d Infori	mation Security Ma	Ianagement	
Credits		2		Lectures	2	Pre – requisites	None	
GPA/NG	SPA	GPA	- Hours/Week	Lab/Assignments				
Module	Aim:	-	he essential under s in BPM practice	rstanding on data prote	ction an	d information securi	ty management	
Learnin	g Outcom	es						
After cor	npleting tl	his module, tl	he students should	l be able to:				
LO-1	discuss th	he importance	e of data protectio	on and information secu	urity ma	nagement in BPM p	ractice	
LO-2	discuss d	ata protection	n laws, regulation	s, and standards	-	- ^		
LO-3	assess eth	nics in inform	nation sharing					
Syllabus	Outline						Learning Outcomes	
1	Introduction to data protection, information security management systems and its importance in BPM practice						LO-1	
2	Relevant	aspects of th	e law related to da	ata protection in Sri La	nka and	l for global trade	LO-2	
3	Requiren	nents of ISO	27001 Informatio	n Security Managemen	nt Stand	ard	LO-2	
4		g information ion sharing	n security in socia	l media networks and i	naintair	ning ethics in	LO-3	
Assessm	ents						Weightage(%)	
Continu Assessm		In-class act	ivities and case st	udies (LO-1, LO-2, LO	)-3)		40-60%	
End Sen Examina		End of Sem	nester written Exa	m (LO-1, LO-2, LO-3)	)		60-40%	
	ended Te	exts					1	

Module	e Code	TM4721	Module Title	Enterprise Risk M	anagem	ent	
Credits		2		Lectures	1	Pre – requisites	None
GPA/N	GPA	GPA	- Hours/Week	Lab/Assignments	2		
Module	e Aim:	To provide	a detailed understa	anding on Enterprise F	kisk Ma	nagement (ERM) pro	cess
	ng Outcom		the students should	d be able to:			
LO-1	explain t	he essential	elements of enterp	rise risk management			
LO-2	explain 1	isk managen	nent framework				
LO-3	explain t	he process of	f assessing risk ma	aturity in an organisati	on		
LO-4	discuss t	he standards	and guidelines ass	sociated with risk man	agemen	t	
Syllabu	s Outline						Learning Outcomes
1	Introduc	tion to enterp	orise risk managen	nent			LO-1
2	Enterpris	se risk manag	gement framework	C			LO-2
3	Risk ma	nagement ma	aturity				LO-3
4	Standard	ls and guidel	ine associated with	n risk management, the	eir requi	rements, and the	LO-4
	process	of achieving	compliance (ISO 3	31000)			
Assessn	nents						Weightage(%)
Continu Assessn		In-class ac	tivities and case st	tudies (LO-1, LO-2, L	0-3, LO	9-4)	60%-40%
End Ser Examin		End of Ser	nester written Exa	m (LO-1, LO-2, LO-3	, LO-4)		40%-60%
	mended T	exts					

Module Code		TM4731	Module Title	Assuring Excellence	in Ser	vice Organisations		
Credits		3		Lectures	3	Pre – requisites	None	
GPA/NGPA		GPA	Hours/Week	Lab/Assignments				
Module	Aim:	To provide a	detailed understa	anding on the process of	f assuri	ng service excellence		
Learnin	g Outcom	ies						
After co	mpleting t	his module, th	e students should	l be able to:				
LO-1	explain k	key aspects of	assuring exceller	nce in service organisati	ons			
LO-2	discuss t	he process of	developing servic	ce standards, measuring	service	e quality and reportin	g performance	
LO-3			enabling service					
LO-4	evaluate	industry spec	ific requirements	for assuring service ex-	cellence	e		
Syllabu		Learning						
							Outcomes	
1	Introduc	tion to service	excellence				LO-1	
2	Develop	ing service sta	indards, measurin	ng service quality, and r	eportin	g performance	LO-2	
3	Driving	service quality	v excellence				LO-3	
4	Industry	specific servi	ce excellence con	siderations			LO-4	
Assessm	nents						Weightage(%)	
Continuous Assessments		Case studies	s, group report an	nd presentation (LO-1, I	O-3, LO-4)	40-60%		
End Semester Examination		End of seme	ester written exan	written examination (LO-1, LO-2, LO-3, LO-4)				
Recomm	nended To	exts					1	

Module Code		TM4741	Module Title	Managing Processe	s in Soft	ware Companies			
Credits		3		Lectures	3	Pre – requisites	None		
GPA/NGPA		GPA	Hours/Week	Lab/Assignments		_			
Module	Aim:	To provide a companies	n understanding o	on the role of BPM and	BPE in	managing processes	in software		
	g Outcom		e students should	be able to:					
LO-1	discuss s	oftware devel	opment life cycle	and process models					
LO-2	assess the	e process mat	urity and perform	ance in software comp	anies				
LO-3	explain t	he methods us	sed in assuring qu	ality in software proce	sses				
LO-4	assess the	e possibilities	of applying BPE	initiatives in software	compan	ies			
Syllabus	Syllabus Outline								
1	Introduct	process models	LO-1						
2	Detail ill success f	erations, critical	LO-1						
3			urity software pro	ocesses and identifying	, the gap	s for improvement	LO-2		
4	Assuring	quality in sof	ftware processes				LO-3		
5	Measurin compliar	and assuring	LO-2, LO-4						
Assessm		-					Weightage(%)		
Continu Assessm		In-class acti	60-40%						
End Sen		End of seme	40-60%						
Examina				,	, 2	- ,			
Recomn	nended Te	exts							

offering the mes this module, t the difference training inst se of profession on to internshi training	m an opportunity the students should es between acaden itutions relevant to nal ethics and bus	nic and industrial enviro o business and manager	ne area of busi	1	None s management b Learning Outcomes				
To enable s offering the mes this module, t the difference te training inst se of profession on to internshi training	tudents to acquire man opportunity the students should es between acaden titutions relevant to nal ethics and bus	e transferable skills in the to gain industry exposure d be able to: nic and industrial enviro o business and manager	nments	iness process	Learning				
offering the mes this module, t the difference training inst se of profession on to internshi training	m an opportunity the students should es between acaden itutions relevant to nal ethics and bus	to gain industry exposu d be able to: nic and industrial enviro o business and manager	nments	iness process	Learning				
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e of profession on to internship training	nal ethics and bus		nent		0				
on to internshi		iness practices			0				
on to internshi training	p programme				0				
training	p programme								
e					LO-1				
			General training						
ıl skills	Practical skills								
Specific on the training									
					Weightage(%				
Training rep	port, Final present	tation, and viva (LO-1, I	.0-2, LO-3, LC	<b>)</b> -4)	100%				
					NA				
Texts					<u> </u>				
[					Training report, Final presentation, and viva (LO-1, LO-2, LO-3, LO-4)				

**COMMON FACULTY ELECTIVES** 

Module	Code	DB1111	Module Title	Business Communic	ation I					
Credits		2	Hours/Week	Lectures	2	Pre –	None			
GPA/NO	GPA	GPA	Hours/ Week	Lab/Assignments	-	requisites	None			
Module	Module Aim:         To revise English Language Skills, improve the understanding on business writing communication etiquette and effective presentations skills.									
	<b>g Outcome</b> npleting thi		students should be	able to:						
<ul> <li>LO-1 demonstrate the effective use of English grammar and writing skills</li> <li>LO-2 demonstrate professional communication etiquette required in business environments</li> <li>LO-3 demonstrate the overall understanding of making business presentations including the use of software applications</li> </ul>										
Syllabus	Outline						Learning Outcomes			
1		English for Pro		, Vocabulary, Reading S	Skills		LO-1			
2	Essentials Sentence	LO-1								
3	3 Professional Communication Etiquette Telephone etiquette, E-mail etiquette, Meeting etiquette (virtual & physical), Making appointments, Minute taking, Formatting texts, Common business abbreviations and phrases									
4	Making E Analysing	g Audience,pre		tions, delivering presen werPoint, Keynote, Pres		aping a	LO-3			
Assessm	ents						Weightage (%)			
Continu Assessm		In-class test/ Assignment Business Pre	80%							
	End Semester ExaminationEnd of semester written examination (LO-1,LO-2,LO-3)						20%			
Recomn	nended Tex	ats								

Module	Code	DB1121	Module Title	Business Communic	ation I	[		
Credits GPA/NGPA		2	2 Hours/Week Lectures		2	Pre –	DB1111	
		GPA	Hours/ week	Lab/Assignments	-	requisites	DBIIII	
Module Aim: To provide students with the Business English skills they need to survive in the gl								
	<b>g Outcon</b> mpleting		he students should	l be able to:				
LO-1 LO-2 LO-3 LO-4	handling develop develop	y business neg business pr bacademic r	otiations and man oposals, reports eports and case	, and correspondence		nmunication skills	required in	
Syllabu	s Outline						Learning Outcomes	
1	Effective	e use of Nonv	erbal communicat	tion - Body Language, H	Emotion	al intelligence	LO-1	
2	Handlin Assertiv	LO-1						
3	Preparin Format, Summar	LO-2						
4	Introduc	tion to Acade e of a Report,	mic writing Academic Refere	encing (APA) – Use of r	eferenci	ing applications	LO-3	
5	Case Stu	ıdy Analysis -	- Analysis of criti	cal elements, summariz	ing		LO-3	
6	Preparin	g a compellin		etters and personal bran			LO-4	
Assessm		F					Weightage (%)	
Continuous Assessments		Role-play activity (LO-1) – 25% Assignment – Business Proposal & Report (LO-2) - 25% Academic Report (LO-3) – 20% Case Study Analysis (LO-3) – 15% Assignment - Professional Resume & Social Media Profile (LO-4) – 15%					100%	
	End Semester Examination							
Recomm	nended T	exts						

## 3. Outlines of new modules

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Module Code TM371				Module Title	ERP Best Business I	Practice	Models	
Credits		3			Lectures	2	Pre –	
GPA/NG	PA	GPA		Hours/Week	Lab/Assignments	2	requisites	None
			de a det lementa		ding of the foundatio	onal bus	iness process	ses within
Learning	Outcom	es						
After com	npleting	this modu	le, the s	tudents should l	pe able to:			
LO-1	explain	any Best	Business	Practice (BBP)	Scenario			
LO-2	discuss	the funct	ional flo	ws that make up	the BBP Scenarios			
Syllabus	Outline							Learning Outcomes
1	Introdu	iction Bes	t Busines	ss Practice Mode	els			LO-1
2	Lead to	Lead to Cash						
3	Procure	Procure to Pay						
4	Hire to	Hire to Retire						
5	Make t	o Order /	Make to	Stock				LO-1/LO-2
6	Engine	er to Orde	er					LO-1/LO-2
7	Acquisi	tion to Di	sposal					LO-1/LO-2
8	Service	Based So	lution					LO-1/LO-2
9	Project	Based So	lution					LO-1/LO-2
Assessme	Assessments							Weightage (%)
Continuo	us Asses	sments	In-class	In-class activities and Final Presentation (LO-1, LO-2)			2)	60-40%
End Seme Examinat			End of s	semester written examination (LO-1, LO-2)				40-60%
Recomm	ended Te	exts						

Module (	ule Code TM4702 Module Title ERP Solutioning								
Credits		3 Lectures 2 Pre –							
GPA/NG	РА	GPA		Hours/Week	Lab/Assignments	2	requisites	None	
Module Aim: To enal solution			le studer	nts to identify a	n organizational need	d and to	provide a pr	actical	
Learning	Outcome	es							
After con	npleting th	his modu	le, the st	tudents should l	pe able to:				
LO-1	identify	gaps with	nin a pro	ocess					
LO-2	apply th	apply the ERP knowledge in overcoming the gaps using process maps							
LO-3	present								
Syllabus Outline									
1	Require	ment gat	hering a	nd Gap Analysis				LO-1	
2	Cross Fu	unctional	Flows					LO-2	
3	Process	Process Mapping							
4	Solution	n Proofing	5					LO-3	
5	Presales	s Demons	tration					LO-3	
Assessme	ents							Weightage (%)	
Continuous Assessments			Present	Presentation of a Mapped Solution (LO-1, LO-2, LO-3)					
End Seme Examinat			End of s	End of semester written examination (LO-1, LO-2)					
Recomm	ended Te	xts							

		TM4751		Module Title	The ERP Implemen	Process				
Credits 3					Lectures	2	Pre –			
GPA/NGI	PA	GPA		Hours/Week	Lab/Assignments	2	requisites	None		
Module /	Aim:			derstand on the entation proces	e intricacies of the EF s	RP imple	mentation p	rocess and		
Learning	Outcom	es								
After con	npleting	this modu	le, the s	tudents should l	pe able to:					
LO-1	explain	ERP impl	ementat	ion and custom	er service					
LO-2	develop	o an ERP i	mpleme	ntation plan						
LO-3	implem	ient a bus	iness sce	enario within an	ERP					
LO-4	discuss	discuss data visualization and reporting within the context of ERP								
Syllabus	Outline							Learning Outcomes		
1	ERP Im	plementa	tion Met	hodologies				LO-1		
2	ERP Im	plementa	tion Plan	ning and Budge	ting			LO-2		
3	The Co	nference	Room Pil	ot - Showcasing	the customer specif	ic Soluti	on	LO-3		
4	Data Vi	sualizatio	n and Re	port - Operatio	nal Intelligence			LO-4		
5	Momer	nts of Serv	vice - Cus	tomer Interacti	on and Support			LO-5		
Assessme	ents							Weightage (%)		
Continuous Assessments		sments	Demonstration of functional flow using ERP and Data Visualization using ERP (LO-1, LO-3, LO-4)				ta	60-40%		
End Sem Examinat			End of s	semester written examination (LO-1, LO-2, LO-4)				40-60%		
Recomm	ended Te	exts								