Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		COLLEGE OF ARTS 8	SCIE	NCE					
		Arabic & General	Studie	es					
ANTH	101	Introduction to Anthropology	3	0	3				
in this field	d includi	its of a history of thought of anthropology and accordingly deng an understanding of research methods. Special attention World generally.							
ARAB	101	Composition for Native Speakers of Arabic I	3	0	3				
		ge course which aims at developing the writing skills of nativ writing and pays special attention to the development of per			Arabic.	The course develops skills such as journalistic			
ARAB	102	Composition for Native Speakers of Arabic II	3	0	3	ARAB 101			
A refineme	ent of w	riting skills introduced in the previous course designed to acc	uaint t	he stu	dent wi	th literary essay writing.			
ARAB	110	Arabic for Non-Arabic Speaking Students I	3	0	3				
		course in modern classical Arabic for non–Arabic speaking st e use of the language in daily communicative situations.	udents	.The o	course o	develops the students ability in the four skills			
ARAB	111	Arabic for Non-Native Speakers I	3	0	3				
writing, and syntax. At the end of this course, students will be able to exchange greetings and introduce themselves in Arabic. They will also be able to engage in short conversations about food and describe places and things. They will master the knowledge of the alphabet, reading and writing, and some rules of the Arabic language related to the singular, dual, plural, and nominal and verbal sentences.									
ARAB	120	Arabic for Non-Arabic Speaking Students II	3	0	3	ARAB 110			
A continua	A continuation of ARAB 110, offering further practice in using the Arabic language in daily communicative situations.								
ARAB	121	Arabic for Non-Native Speakers II	3	0	3	ARAB 111			
Standard a speaking a completing compound between v compose t	This course aims to develop, at an advanced level, the language skills of both Standard and Spoken Arabic designed for non-Arabic speakers: reading, listening, speaking and writing, in addition to learning the grammatical/ structural rules. After completing this course, the students will be able to distinguish the shapes of compound letters, use short vowel diacritics and long vowels, and distinguish between verbs and nouns. They will also be able to read short and long sentences, compose them, and turn them into understandable paragraphs.								
ARAB	201	Introduction to Modern Arabic Literature		0	3				
acquaint t	he stude	nded to help the students appreciate literary texts and gener ents with relevant background information pertaining to such pols such as the Renaissance, Romanticism, Realism and Moo	major	literary					
ARAB	231	Arabic for Non-native Speakers III	3	0	3	ARAB 121			
Standard a speaking a this course the senter distinguish short narr	This course aims to develop, at a further advanced level, the skills of using advanced Standard Arabic and Spoken Arabic skills by non-Arabic speakers: reading, listening, speaking and writing, and the use of grammatical and structural rules. After studying this course, the student will be able to read texts of medium length, be able to expand the sentence with noun and verb modifications, in both speaking and writing, and to distinguish between nominative and verbal sentences. He will also be able to write a short narrative text, and engage in an oral or written dialogue with other students on an issue from daily life experience.								
CULT	101	Introduction to Culture	3	0	3				
		ntroductory survey of the basic doctrines and concepts of Arodern times and focuses on the influence of Western civilizat		d Islan	nic civili	zation. It covers reading materials from the			
CULT	102	Islamic Culture	3	0	3				
the definit	tion of Is	to give students the opportunity to explore a variety of theme slamic culture in terms of Qur'anic studies and Prophetic trad act of Islamic theology on cultural aspects in Islamic society;	itions;	the cor	ntrasting	g views of classical and modern Islamic			

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shaped by Bahra this culture, and most important course also shed main professions manifestations of included in the countries, aspectoe of women  CULT 120  In this course, s general informat importance, the the economy, as about the Arabs civilization, ancie other civilization  CULT 130  This course provand elements, cithe problem of f concept of local such as poverty  EOPL 112  The Course family women and enh Charter. It also a advance women	seents a realistic picture of the local culture by presenting raini culture and Bahraini society, with a focus on the character and the most important sources of its formation, with a refet aspects of urbanization and civic life in the Kingdom of eds light on the values, customs and traditions of the Bahraini sand industries, ancient and modern, with reference to of the development of education, industry and economy course are Bahrain's relationship with the Arab Gulf statests of the modern state, Islamic civilization, ancient civilization of the development of Arab culture, its character ation about the Arab world, such as the geographical locate manifestations of modern development in industry, are as well as the common factors among Arab peoples. The same sciences in ancient times, the translation movement is and sciences in ancient times, the translation movement is and sciences in ancient times, the translation movement is and sciences in ancient times, the translation movement is and sciences in ancient times, the translation movement is and sciences in ancient times, the concepts of cultural operations.  General Culture  Divides detailed knowledge of the concepts of culture, its coustoms and traditions, the role of women in the family and and international organizations, and economic problems and unemployment.  Equal Opportunities in Public Life  miliarizes the student with the efforts and achievements of the concepts of the concepts of culture in the province of the concepts of culture in the family of the concepts of culture, its o	g the influence aracteristics of ference to the Bahrain. The hraini society of the V. Other aspectes and the Activations and its chitecture, and sation and its chitecture, and society, examines the list in the world and society, and society, examines the list in the world and society.	oces of e cts rab the  d ic	T	3								
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and elements, counter the problem of focus of local such as poverty  EOPL 112  The Course family women and enh Charter. It also advance women	customs and traditions, the role of women in the family a family disintegration in Gulf and Arab societies. It also e all and international organizations, and economic problems and unemployment.  12 Equal Opportunities in Public Life  miliarizes the student with the efforts and achievements of the hancing their participation in development by reviewing to examines the steps involved in establishing the Suprements.	and society, examines the is in the work	and d 0										
EOPL 112 The Course fami women and enh Charter. It also e advance women	Equal Opportunities in Public Life miliarizes the student with the efforts and achievements of hancing their participation in development by reviewing to examines the steps involved in establishing the Supremo	of the Kingdo				This course provides detailed knowledge of the concepts of culture, its characteristics and elements, customs and traditions, the role of women in the family and society, and the problem of family disintegration in Gulf and Arab societies. It also examines the concept of local and international organizations, and economic problems in the world such as poverty and unemployment.							
women and enh Charter. It also a advance women	hancing their participation in development by reviewing to examines the steps involved in establishing the Supremo			- 1	3	HUMR 101							
HIST 10	· · · · · · · · · · · · · · · · · · ·	e Council for various econo t Goals.	Women somic, s	ien (	SCW) al and 3	and its initiatives launched to empower and political fields, leading to comprehensive							
emphasis on the North Africa afte analyzed. The la	erviews the political and economic history of the Middle Ene historical origins of the contemporary problems confroter the imposition of European colonialism, the post-colonialism and the course explores major contemporary issention of the United States in the region.	onting the reg nial political	gion. A challer	After nges	exam that	ining the political map of the Middle East and these newly independent states faced are							
HIST 12:	21 Modern History of Bahrain	3	0		3								
the rise of Zubai	cuses on the importance of the strategic location of the K ara; the beginning of Al-Khalifa era; Bahrain under the B of the political administrative and legal systems; econom	British protect	ion &	inde	epende	ence and the building of the modern state;							
HUMR 10	_	2	0		2								
Conventions of I International Co Torture and Oth	vers the basic principles of human rights through the defi Human Rights, which includes the following documents: Convenient for Civil and Political Rights, International Conther Cruel, Inhuman or Degrading Treatment or Punishmeral freedoms in the Kingdom of Bahrain.	: United Nation of the contract of the contrac	ons Ch conon	narte nic, :	er, Uni Social	versal Declaration of Human Rights, and Cultural Rights and Convention against							
LAW 101	Introduction to Legal Systems & Legal Reasoning	3	0		3								
of law, the natur	f this course consists of an introduction to theories of the ure of courts and selected other legal institutions, a com		gal sys	stem	ns, and	the special nature and sources of							
the course.	w. Students gain exposure to legal reasoning including b	ooth statutory				and case law reasoning in the second hair of							
the course.  PSYC 10:		ooth statutory	0	Ţ	3	and case law reasoning in the second hair of							
PSYC 10: After providing a overviews resea		3 chology, this cerstand huma	course n deve	e intr	roduce ment	es Psychology as a scientific discipline and at each stage of life, the nature of personality							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Arabic & General	Studie	es				
SOCI	101	Sociology	3	0	3			
interaction	ns and pr	uces students to the fundamental concepts and methods of socesses. Such aspects as social structure, class stratification behavioral patterns are among the issues covered in this intro	, cultur	al asp	scientifects of	ric study of group behavior in terms of social social organization, gender issues, ethnicity,		
SOCI	102	Sociology II	3	0	3			
topics spa	nning th	uces students to the analysis of the social basis of behavior a e gamut of: social interaction, social self, social cognition, so nd leadership.						
		Directorate of Digital Media and Comm	unicat	ion T	echnol	ogy - Ph.D.		
DMTC	601	Readings in Digital Media and Communication Technology	3	0	3			
DMTC	602	Intercultural Communication	3	0	3			
DMTC	603	Legal Issues in Mass Communication	3	0	3			
DMTC	604	Research Methods in Media and Digital Communication	2	2	3			
DMTC	605	Internet Culture and Digital Media Applications	2	2	3			
DMTC	606	Strategic communication	3	0	3			
DMTC	699	PhD Thesis in Digital Media and Communication Technology*	0	0	32			
	Foreign Languages							
CHIN 101 Introduction to Chinese I 3 0 3								
A Chinese language primer, the first in a series of three elementary courses. A practical language course which aims at familiarizing students with the basic rules of pronunciation, reading, speaking, writing, and listening comprehension of Chinese language. The course material focuses on								
developing		ts' ability to understand and express Chinese in daily convers				anguage. The course material rocuses on		
ENGL	050	Orientation English	6	0	0			
A basic int	ation.	English language course which aims to develop the students	' basic	langua	age skil	s and focuses mainly on business		
ENGL	•	Reading and Writing	3	0	0			
It also intr	roduces	extensive reading practice at beginners to pre-intermediate l different aspects of writing at the sentence as well as paragr			elops re	ading strategies required for university study.		
ENGL	055	Grammar and Vocabulary	3	0	0			
		a review of Basic English structures and provides students w iims to expand students' vocabulary related to both everyda						
ENGL	101	Academic English I	3	0	3	ENGL 050 OR ( ENGL 051 AND ENGL 052 AND ENGL 053 ) OR ( ENGL 052 AND ENGL 055 )		
		p the students' ability to use the language for academic studenments, vocabulary-building and writing short texts.	ly as w	ell as e	everyda	y situations. It offers practice in reading		
ENGL		Academic English II	3	0	3	ENGL 101		
		ntinuation of ENGL 101. It further develops students' reading munication.	g, writi	ng, list	ening a	nd speaking skills needed for academic study		
ENGL	131	English Grammar I	3	0	3	ENGL 101		
usage and	l punctua	nded to provide students with a review of the basic elements ation. Students will analyse typical usage problems of gramm written productions.						
ENGL		English Writing Skills I	3	0	3	ENGL 101		
encourage	ed to view course o	nded to focus on developing beginning writing skills including waveful	f this p	rocess	. There	will also be an emphasis on critical thinking		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Foreign Langu	ages			
ENGL	201	Academic English III	3	0	3	ENGL 102
	ation. Pa	ries of integrated language courses to develop the students' articular emphasis is placed on developing the students' abili				
ENGL	202	Academic English IV	3	0	3	ENGL 201
		series of integrated language courses which continues to devi munication.	elop st	udents	s' profici	ency in using the language for academic study
ENGL	210	Technical Report Writing	3	0	3	ENGL 201
covers ess	ential la	es skills needed for planning, structuring, and writing techninguage structures and vocabulary in line with English proficit of this course the learner will be able to communicate in wi	ency st	andard	ls comn	nonly required for efficient technical report
ENGL	211	English for Health Sciences I	3	0	3	ENGL 102
		ries of integrated language courses, which develops and imp h selected readings based on physiotherapy-related topics.	roves s	tudent	s' readi	ng skills in English, whilst increasing medical
ENGL	212	English for Health Sciences II	3	0	3	ENGL 211 AND Completion of at least 3 credits
		series of integrated language courses, which further develop y through extensive readings based on health- related topics		improv	es stud	ents' reading skills in English, whilst increasing
ENGL	213	Report Writing	3	0	3	ENGL 201
language s	structure	es skills needed for planning, structuring, and writing report es and vocabulary in line with English standards commonly re e to communicate reports with appropriate use of visuals and	equired	for eff	fective i	
ENGL	215	Readings in English Literature	3	0	3	ENGL 201
		uces students to English literature and focuses on readings a nature of literature through the study of character, plot, the				
ENGL	216	Readings Literature II	3	0	3	ENGL 215
selected w	orks of	uced to short fiction in ENGL 205, the students are required to poetry and drama. The aim of the course is to develop externature through the study of character, plot, theme, setting,	nsive re	ading	skills an	d encourage a better understanding and
ENGL	218	Workplace Writing Skills	3	0	3	ENGL 102
		uces students to the trends of written communication in a pr will be required to study a variety of workplace corresponder				
ENGL	221	Introduction to Translation	3	0	3	ENGL 201
English to	Arabic a	uces students to basic techniques of translation and develops and vice versa. Materials include short descriptive passages, s. Typical problems involved in such translation are highlighte	letters,	annou	ncemer	
ENGL	223	English Communication	3	0	3	ENGL 102
through la	nguage	o further develop learners' communication skills, particularly tasks in general as well as academic topics. Learners will als ersational skills, and gain cultural knowledge of the target la	o analy	se san		
ENGL	231	English Grammar II	3	0	3	ENGL 131
functions.	They w	ners will focus on advanced English structure. Learners will on the introduced to inflectional and derivational morphology of the given to tense, aspect, voice and modality.				
ENGL	250	Reading Skills in English	3	0	3	ENGL 102
a variety o	f non-lit	gned to refine learner's ability to read, understand and responderary texts that learners face in their everyday use of English thinking, interpretation of facts and data, reading speed and	h. Activ	rities er		
ENGL	251	English Fiction	3	0	3	ENGL 250
critically. E	mphasi , and th	es the diversity of fiction as it appears in the short story, not is on techniques of close reading, critical inquiry of formal eme. Learners will learn to communicate in writing the evaluations.	elemen	ts such	n as plot	, setting, character, point of view, conflict,
ENGL	252	English Writing Skills II	3	0	3	
		nded to further develop learners' writing skills in both professesay writing. It introduces learners to, and provides practice				

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Foreign Langu	ages			
ENGL	301	Advanced Language Skills I	3	0	3	ENGL 213
ideas of a o	complex settings	gned to offer practice in advanced English language skills. It s text), oral communication (interacting with a degree of flue s) and writing skills (producing clear, detailed text on a wide cuctures. Learners will also develop the techniques necessary	ency an range	d spor of subj	itaneity jects) in	required in classroom and real-life, including addition to offering accuracy in using
ENGL	302	Advanced Language Skills II	3	0	3	ENGL 301
between la communica	nguage ation, ar	practice in English skills. Typical learners at this level will be and culture. The course focuses on further development of nd flexible and effective language use for social, academic and structures. Learners will also further develop the study s	the lea	rners' ession	reading al purpo	and writing skills, fluent and spontaneous oral ses, in addition to offering further accuracy in
ENGL	351	A Survey of English Literature	3	0	3	ENGL 251
		o explore the historical development of English literature fro tive of these periods will be introduced, and their work will b				
ENGL	352	English Writing Skills III	3	0	3	ENGL 252
helps stude helps them usage, text ENGL	ents to e to ask t organis	ting course offers practice in writing different types of well-sexpress themselves fluently and use the language flexibly and creative questions and think critically. It expands various wrestion, and writing an academic paper.  Readings in Modern British and American Literature	id effici riting sk	ently faills inc	or socia luding e	l, academic, and professional purposes. It also error correction, grammar usage, punctuation ENGL 351
		es ample practice in reading literary texts by British and Ame ted by evidence, relating to theme, style, setting and social				iducting critical analysis, interpretation, and
ENGL	360	Introduction to Linguistics	3	0	3	ENGL 213
be introduc	ced to th	ovide a general overview of the study of language with partine main areas of linguistic description and analysis, including the control of th				
ENGL	361	English Phonetics and Phonology	3	0	3	ENGL 360
articulated, also be trai given traini	, as well ined in I ing in th	uces learners to the sounds of English. Learners will learn ho I as how the consonants and vowels of English are distribute English phonemic transcription according to the principles of the prosodic (suprasegmental) features of English, including s	d and the In	descrit ternati structi	oed in te onal Pho	erms of their distinctive features. Learners will conetic Association. In addition, students will be less and intonation.
ENGL		Introduction to Semantics	3	0	3	ENGL 360
		s on the ways in which meaning is encoded in words, phras c and non-linguistic contexts in determining the meaning of		tences	and utt	rerances. It also points to the role of the user
ENGL	364	Stylistics	3	0	3	ENGL 360
opportuniti	es for s	ed course related to the linguistic techniques used in the ana tudents to develop an awareness of style and usage and ena various linguistic resources (lexico-grammatical, rhetorical,	ables th	nem to	formula	ate descriptions of stylistic distinctions. It helps
ENGL	365	Discourse Analysis	3	0	3	ENGL 360
approaches numerous	s to stud texts, st	es a practical introduction to discourse analysis, the study of dying oral and written texts and engage students in hands-o tudents will use analytic tools to examine aspects of meaning re such issues as the text producer's intent, contextual impa	n analy g-makir	sis of ng, tex	naturally t cohesi	y occurring discourse. Through using on, coherence, and text organisation. Further,
ENGL	461	Contrastive Linguistics and Error Analysis	3	0	3	ENGL 360
systems of	the lea	oted to the theory of contrastive analysis, which focuses prir rner's native language and the foreign language (Arabic & E , analysis, classification, and explanation).				
ENGL	499	Project in English	0	6	3	ETRM 498 AND ETHC 399
include det methodolog	ailed lite gy with	red to work on a practical project in English language/literat erature review investigation and research-based argument, a relevant conclusions that may be used for future research o c research, writing and oral defence.	and sho	ould be	suppor	ted by a detailed research design and
ETHC	399	Ethics and Professional Practice in English and Translation	3	0	3	Completion of at least 66 credits
explores m professiona fidelity, equ	orality a al standa uivalenc	uces learners to major ethical issues related to translation ar and ethical principles that regulate translation as a professio ards of practice and codes of ethics. Learners also study the res, and linguistic choices on the target text. Through numer lict in translation that may give rise to an ethical issue, and t	n, discu e ethica ous cas	isses t il impli se stud	he conc cations lies, lea	ept of accountability, and surveys relevant of several translation-specific factors including rners will be trained to identify and analyse

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Foreign Langu	ıages			
ETRM	498	Research Methods in English and Translation	3	0	3	ENGL 302 AND ETHC 399
different re leading to	esearch the fina	o provide learners with the skills required to conduct a resea methodologies, academic writing, and research ethical stand I project. Core competencies will include effective use of the ocesses and procedures involved in scientific research and d	dards. 7 library	he lea , the a	rner will bility to	If be able to develop a research proposal reference sources, plan the research,
FREN	101	French I	3	0	3	
A French la listening co	anguage omprehe	e primer, first in a series of two elementary courses, offering ension, writing and basic rules of grammar). Students develog conversation in French with others.		liarizat		
FREN	102	French II	3	0	3	FREN 101
	attention	primer, second in a series of two elementary courses, offer n to irregular verbs in everyday use. Students develop greate				
GERM	101	German Language & Culture I	3	0	3	
regions of	Central ons. Stu	ices the German language to students and promotes a gene Europe. It is designed to enable students to communicate n idents develop skills in reading, listening, speaking, and writ	neaning	fully in	Germa	in on basic topics dealing with everyday events
GERM	102	German Language & Culture II	3	0	3	GERM 101
		GERM 101 that provides the students with the opportunity noto gain awareness of contemporary German society and the				
INTR	481	Internship in English and Translation	0	0	3	Completion of at least 90 credits
proofreadir governmer KORN KORN 101 alphabet (H	ng work nt or pri 101 is an in Hanguel	and the world of work. The programme provides learners w. The interns' performance is closely supervised by faculty movate sector entity where training is held.  Introduction to Korean Language I  troductory course designed for students with no previous kn ) in order to discern the sound of each alphabet. Furthermo	3 anowledgare, the	0 e of th	3 e Korea will tea	al supervisors and assessed in tandem with the an language. Students will learn the Korean ach students to speak basic Korean by teaching
		structure and vocabulary of the Rolean Language through natical rules and 150 Korean words.	ulalogu	es or r	ear ille :	situations. The course surves to teach the
KORN	102	Introduction to Korean Language II	3	0	3	KORN 101
acquiring cout speakir	commun ng, liste	urse is designed for students who have come across learning ication skills by learning further complex grammatical struct ning, reading and writing tasks. Students will be able to use the appearance as well. This course aims at expanding the	ures an	d expa fic forn	inded v	ocabulary used within a daily life by carrying xpress wish and to talk about hobbies, taste,
SPAN	101	Introduction to Spanish I	3	0	3	
		ge course which aims at familiarizing students with the basic ne course material focuses on developing students' ability to				
SPAN	102	Introduction to Spanish II	3	0	3	SPAN 101
A continua	tion of S	SPAN 101 which aims at further developing the students' ski	lls in sp	eaking	, readir	ng and writing.
TRAN	270	Fundamentals of Arabic-English Translation	3	0	3	ENGL 201
factors affe will practice	ecting tr e funda	es linguistic and conceptual skills specific to translation activ anslating from English to Arabic and vice versa. Additionally mentals of translation in various fields. The leaners will be e ng speed and accuracy.	, it dea	ls with	the pra	ctice and ethics of translation. The learners
TRAN	271	Journalistic Translation	3	0	3	ENGL 201
include sele	ections	s on translation and analysis of various authentic texts take from the areas of politics, economics, news reports and adv lications and platforms by applying advanced knowledge an	ertising	. The l	earner v	will be able to meet the need of a journalist in
TRAN	272	Translation of Scientific Texts	3	0	3	ENGL 201
engage in topapers and	translati I guideb	es students with the relevant skills necessary for translating ing a wide range of scientific texts, including popular science ooks. While practising translation tasks, the student will lear ts, will build terminology sets in the subject areas covered in	e article rn strat	s, scie egies c	ntific re of dealir	ports, proposals, extracts from scientific ng with issues that often arise when translating

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Foreign Langu	ages				
TRAN	372	Translation in Diplomatic and International Relations	3	0	3	TRAN 270	
internation	al relation	gned to train learners and refine their skills in translation fro ons. A variety of texts, terms and expressions connected wit ats from bilateral and multilateral agreements, international	h inter	nationa	al relatio	ons will be used. Materials will include	
TRAN	373	Translation of Official and Legal Documents	3	0	3	TRAN 270	
official and	l legal te d vice ve	o address the various complexities involved in the translation erminology and style. Practical application will be provided in ersa. This course offers an overview of translation practices a	transla	ating a	variety	of official and legal texts from Arabic into	
TRAN	374	Business Translation	3	0	3	TRAN 270	
advertisem as docume	nents, bu ents relat	gned to train students in the skills and techniques required fusiness correspondence, memorandums, notices, business noted to shipping, insurance, and customs. Students will also burnagazines, tourist guides, catalogues, posters and promotion	ews rel e train	eases, ed in t	annual	reports, marketing and banking texts as well	
TRAN	375	Translation of Technical Texts	3	0	3	TRAN 272	
to develop will focus o	and rein on devel	gned to familiarise students with the textual characteristics on force the skills and techniques required for translating such oping proficiency in written scientific and technical translation develop an understanding of how to manage terminological	writing n that	gs from is clea	n Englisl r in expl	n to Arabic and vice versa. Practical training ression and sensitive to stylistic issues.	
TRAN	376	Medical Translation	3	0	3	TRAN 272	
This course, which is largely practical, is intended for students with an advanced level of English who require specialized knowledge in both linguistics and translation in order to assist patients and medical/healthcare professionals by providing effective translation from English to Arabic and vice versa to facilitate communication in medical and healthcare settings. Authentic medical reports and notes pertaining to medical/healthcare topics will be utilized in a variety of communicatively focused exercises and tasks. The acquisition of medical/healthcare terminology in context, oral expression in certain contexts, written expression, as well as cultural components, will all receive special consideration.							
TRAN	377	Advanced Technical Translation	3	0	3	TRAN 375	
This course deals with technical translation of documents containing technical material, so it is a specialized form of translation of documents which contain scientific and technical terminologies. Students taking this course will be trained in the field of technical translation from English to Arabic and vice versa. The documents used include user and operating manuals, scientific, technical, and engineering reports, patents and patent applications, manuals and guides for electronic products, technical products and their warranties, and technical specification of the products.							
TRAN	466	Translation of Technical and Medical Documentation	3	0	3	TRAN 375 AND TRAN 376	
with the re translation documents	elevant c techniq and the	s on specific translation issues in the specialised fields of tec ompetences and practical skills required to translate authen- ues and utilising appropriate supporting research. Students e contexts in which they are translated, and learn effective s in uting CAT tools and post-editing techniques.	tic docı will exp	uments olore ce	s in thes ertain co	se two domains, critically applying efficient ommonly used types of technical and medical	
TRAN	467	Advanced Medical Translation	3	0	3	TRAN 376	
introduces practical re terminolog translating	student sources y, medic patient	urse is to help students sharpen their translation abilities from some proficient in Arabic and intend to work as medical spectronic tools, and industry-recognized standard material prefixes and suffixes, and medical translation resources, information leaflets, medical brochures, and public health but leaflets and gain understanding of a range of medical topics.	and ho s. By s the cou ulletins	ealth se tudying ırse int	ervices g the va egrates	translators to the appropriate practices, riety of illnesses and disorders, anatomical theory and practice. It also emphasises	
TRAN	468	Translation of Technical User Manuals	3	0	3	TRAN 375	
theoretical get the ski understand	and pra lls they i d a prod	technical user manuals is essential for the globalisation of a actical knowledge necessary for the translation of a technical need to successfully translate the most valuable information uct. They will also have the opportunity to practice technical with industry-specific terminology.	user n	nanual: ned in	s from E technica	English to Arabic and vice versa. Learners will all user manuals end users need to use and	
TRAN	469	Interpretation Skills in Healthcare Settings	3	0	3	TRAN 376	
interpreting and the re- interpreter	g skills, quisite n s. Additi	learners with hands-on simultaneous interpretation training such listening comprehension, memory retention, note takin nedical terminology and ethical knowledge. Learners will accountly, this course gives students the opportunity to use simple focus on improving note-taking and listening abilities.	g, men Juire th	ital trai e skills	nspositions and kn	on, and verbalization in the target language, owledge required by qualified simultaneous	

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Foreign Langu	ages						
TRAN	470	Translation for Tourism, Culture and Heritage	3	0	3	TRAN 374			
cultural va this field. \ vice versa and herita	riations With a p of authe ge. The	cicial component of effective cross-cultural communication, postween Arabic-speaking and English-speaking nations have articular emphasis on UNESCO publications in this area, this entic documents linked to tourism, culture, and heritage. Stucourse also increases learners' understanding of the significations culture, eradicating cultural differences, integrations.	e an imposed an imposed ance of ance o	expose expose ere intre Englisi	transla es stude oduced n-Arabie	ation from English to Arabic and vice versa in ents to translation from English to Arabic and to specialized terms used in tourism, culture, c-English translation in tourism, heritage, and			
TRAN	471	Literary Translation	3	0	3	TRAN 270 AND ENGL 351			
versa. It is drama, no problems t	aimed a n-fiction that tran	gned to provide learners with the knowledge and skills necestate exposing learners to the various translation strategies and prose and children's literature. Selected samples of translations face, linguistic or cultural, and their concomitant solusenting different genres.	l techni ed liter	ques u ary wo	sed in o rks are	different genres including fiction, poetry, analysed to illustrate the type of language			
TRAN	472	Translation of Media Materials: Print and Audio-visuals	3	0	3	TRAN 271 AND ENGL 302			
versa. It fa press relea	This practical course trains learners in methods and techniques involved in translating news and media materials from English to Arabic and vice versa. It familiarises learners with the different types of media material both in print (e.g., features, roundups, brief, reviews, newsletters, and press releases) and in audio-visual format (e.g., television subtitles, multi-media, news media, news conferences). Technical problems and cultural issues are identified and discussed.								
TRAN	473	Editing and Proofreading in Translation	3	0	3	TRAN 270 AND ENGL 302			
This course focuses on the importance of editing and proofreading skills in translation. It deals with how creating a source-to-target language cranslation appropriate for the target audience is the first step in the overall translation process. The course deals with the distinction between editing, and proofreading. It also looks at literal and content translation, and how professional translators adapt the source language, so that its features remain intact in the translated version.									
TRAN	474	Simultaneous and Consecutive Translation	3	0	3	ENGL 302			
techniques interpretat TRAN This course mainly foc	s, and vaction enviol 475 e is desi us on th	ums, meetings, and other events. It deals with linguistic asprious issues involved in this practice. Learners will gain hand ronment.  Computer Assisted Translation and Post-editing gned to introduce students to the role of computer-assisted e use of online MT tools such as Google Translate and SYST also provide practice in post-editing of translated texts.	ds-on e 3 transla	xperier  0  tion (C.	3 AT), als	TRAN 473 o known as Machine Translation (MT). It will			
TRAN	476	Translation Criticism	3	0	3	TRAN 473			
This course are given e texts. Thro	extensivough app	gned to train leaners in the methods and strategies of transl e practice in analysing/assessing critically various aspects of olying text analysis procedures, the relationship between translining in proposing alternative renditions of a given text usin	transla nslatior	ition by	examii and tr	ning a wide variety of published translated ranslation practice will be explored. Learners			
TRAN	477	Advanced Translation of Official and Legal Documents	3	0	3	TRAN 373			
to Arabic a improve th The texts t	and vice neir abilit that will	el course aims to provide students with practical experience versa. Students participate in discussions of both the linguis by to produce official and legal documents in general. The proper translated will come from different sources and address aloyment of the proper register and style, are given special company.	tic and ocedur a wide	legal c es for t range (	ompon ranslati	ents of the translation process, which maying legal papers are explained to the students.			
TRAN	479	Interpretation Skills for Business and Legal Purposes	3	0	3	TRAN 373 AND TRAN 374			
professiona introduces online simo with busina for interpre	This course builds on the knowledge and skills acquired in earlier interpreting and translation courses. It is designed to develop learners' professional skills of consecutive and simultaneous interpreting from English to Arabic and vice versa for business and legal purposes. The course introduces consecutive and simultaneous interpreting in business and legal settings, the latest developments in the interpreting industry, such as online simultaneous interpreting, and conference etiquette, and follows up with a series of seminar workshops and simulated conferences dealing with business and legal matters. Learners will perform intensive practical training in interpreting on how to handle spoken discourse adequately for interpreting purposes, and are exposed to diverse interpreting contexts such as court hearings, press conferences, national and international forums covering business, and legal topics.								
TRAN	499	Project in Translation	0	6	3	ETRM 498 AND ETHC 399			
detailed lit with releva	erature ant conc	red to work on a practical project in translation under the so review investigation and research-based argument, and shoo lusions that may be used for future research or by policy ma , writing and oral defence.	uld be	support	ted by a	detailed research design and methodology			
		Interior Desi	ign						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Interior Des	ign			
Architectur business of professiona resources.	e. Empl f archite als inclu As part	e course is to introduce ethical dimension of management to hasis is on applying ethical standards to a range of business ecture and interior design. Ethical aspects of doing business iding but not limited to: business management, marketing, cof the learning process students will be expected to participnking skills in ethics.	practic impinge ontract	es that e on a s, nego	the pra range o	actitioner might likely encounter in the f services provided by architectural and design s, design cost analysis/control and human
GDES	300	Design Studio*	0	6	3	
GDES	303	Lettering & Typography I	Ιο	6	3	
		3 71 3 1 7				
GDES	304	Lettering & Typography II	0	6	3	GDES 303
GDES	305	Computer Application in Design I*	0	6	3	ITCS 121
GDES	306	Photography	0	6	3	
GDES	308	Computer Application in Design* II	0	6	3	INTD 305
GDES	309	Illustration Techniques	0	6	3	
GDES	310	Design Studion II	0	6	3	GDES 300
GDES	400	Design Studio III*	0	6	3	GDES 310
GDES	405	Computer Application in Design III*	0	6	3	GDES 308
GDES	407	Portfolio Development I	0	6	3	
GDES	408	Printing & Publication Design	2	2	3	
GDES	410	Design Studio IV*	0	6	3	GDES 400
GDES	432	Research Methodology*	3	0	3	
GDES	434	Research Methology	3	0	3	
GDES	499	Project in Graphic Design	0	6	3	GDES 432 AND Completion of at least 90 credits
IDRM	498	Research Methods in Interior Design	3	0	3	INTD 329
surroundin implemente	g buildi: ed in th	on course for INTD 499 Final Design Project. A thorough stucings and context, orientation and environment, and access are project design. Students achieve an analytical research stuer, students should present their project to a jury of profession.	nd outle udy abo	ets. Stu ut a di	udents of versity of	explore building regulations that have to be of similar case studies and their context. At the
INTD	100	Engineering Drawing	1	4	3	
knowledge	of draf	ntroduction to manual architectural drawing. The objective or ting fundamentals and to create orthographic and pictorial to enstruments, lettering techniques, line work, scale drawings,	echnica	l drawi	ngs free	ehand and using equipment. Topics covered
INTD	101	Drawing I	0	6	3	-
INTD	102	Introduction to Design	1	4	3	
	e introdi	uces students to the field of design through an introduction of all simple building projects.	to gene	ral ide	as and	concepts of design theories and basic design
INTD	103	Freehand Drawing	0	6	3	
This course	e aims a	at imparting sketching skills as a form of expression and thin	king in	the de	sign pro	ocess.

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Interior Desi					
INTO	104		<u> </u>	4	3	INTO 100	
INTD	104	Interior Design Drawing	1			INTD 100	
communica	ation (p	o develop both two-dimensional (for the creation of simple a erspective) as a means of creating the illusion of 3-dimension ive and how effectively render the illusion of space using per	nal spa	ce on	a 2-dim	ensional surface. Using both one (1) and two	
INTD	105	Theory of Interior Design	3	0	3	INTD 102	
students w	ill disco	uces the student to theories of visual perception and concepver the fundamentals of design, the design process, and creproxemics, anthropometrics and ergonomics.					
INTD	110	Drafting Studio I	0	6	3		
INTD	111	Basic Design I	1	4	3		
Introduces students to the elements and principles of visual design and develops mental and manual skills to deal with visual values for structuring and expressing two- dimensional spatial compositions in different environments. Among the targets: to gain the ability to use visual and verbal design language; to introduce abstract thinking; to introduce and discuss the conceptual, visual, relational, and practical elements of basic design with their geometric definitions and relationships, and rhythm, balance, emphasis, dynamism, hierarchy, unity, etc.							
INTD	112	Basic Design II	1	4	3	INTD 111	
balance, ei	mphasis	s to develop students' mental and manual skills in making us s, hierarchy, etc., and explore the principles of visual percept actor and spatial organization in developing three-dimension	ion of f	orm, s	pace, fu	unction, mass to examine the relationship	
INTD	113	Colour and Rendering Techniques	1	4	3		
rendering t	techniqu	o provide the students with a background in colour theories uses of 2D and 3D interior design and architectural drawings or reaction to light and shadow in interior environment.					
INTD	200	Design Theory	3	0	3		
architectur	e prese	s major philosophies and trends that have determined differ nts theories of the design of architectural interiors and relate al environmental and technological factors. Drawing II					
מואונ	201	Drawing II	U	0	3		
INTD	202	Drawing III	0	6	3		
11110	202	Didming 112			J		
INTD	203	Design Workshop	1	4	3	INTD 102	
This course	e focuse	es on model-making for a variety of projects, whether interio	r or ext	terior i	n additio	on to different interior design compositions.	
INTD	204	Design Drawing I	1	4	3	INTD 100	
and isomet	trics). D	projection, techniques of representation of 3D including orthor rawing straight and curved lines, orthographic projections, s architectural plans, elevations and sections, and title blocks	ectiona	and p	oictorial		
INTD	205	Presentation & Rendering Techniques	0	6	3	INTD 104	
of medium and mount	s includ ting tech	es on freehand rendering techniques for illustrative graphic p ing graphite, ink, colored pencils, marker pens, pastels, wate nniques. to create authentic versions of their designs. Empha way objects and spaces are presented in three dimensional p	ercolor, asis is c	and c	ollage. ( lering te	Other topics include reproduction, transfer, echniques that are used to accurately	
INTD	206	History of Art & Design	3	0	3		
philosophy environme	, and in nt. This	s the development of world architecture and art from classic terior elements in architectural and sociological context. Stude course strives to impart to students a critical comprehension ign solutions.	dents s	tudy tł	ne recor	d of human achievement expressed in the buil	
INTD	207	Materials in Interior Design	3	0	3	INTD 105	
		ts of a study of construction and finishing materials and thei of construction and finishing materials used in interior design		rties. I	mphas	is is on the appropriate selection, specification	
INTD	208	Visual Training	0	6	3	INTD 103	
This course principles.	e aims t	o develop aesthetic expression and judgment in design and	archite	cture t	hrough	the creative use of art elements and design	

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	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Interior Des	sign			
INTD	209	Colour Theory & Practice	0	3	3	
he eleme	ents of li	ops the students' sophisticated sense of the theories of color ght, space, harmony, and assimilation as they pertain to the nd class exercises. An understanding of the use of color in i	e use of	color i	n desigi	n are covered through lectures, in-class
INTD	210	Design Drawing II	0	6	3	
TAUTO	244	To	1.		2	TAITE 204
Jsing 1, 2	, and 3	Design Drawing II  uces students to systems of perspective as a means of crea point perspective, students will learn to effectively render th ing techniques of presenting architectural drawings includin	ne illusio	n of sp	ace. St	udents will learn a variety of creative
INTD	212	Elementary Residential Interior Design Studio	1	4	3	INTD 104 OR INTD 211
conceptua needs, life nterior re	il elemer quality sidential	dents apply a range of elementary design skills for the devents (human scale, movement, circulation, space planning) re improvement, and health and safety considerations. Studendesign and hone skills in freehand drawing and manual drards the preparation of conceptual illustrations.	evolving nts enga	aroun ge in s	d deside ystema	erata of living spaces, user requirements and tic research in and interior programming of
INTD	213	Textiles for Interior Design	3	0	3	INTD 207
haracteri	stics, us	to give students a broad understanding of technical and fund e and production of textile materials used in interior design; of the textiles considering their favorable properties; and o	the ph	ysical,	mechan	ical and chemical properties of textile
INTD	214	Software Technologies for Interior Design	1	4	3	INTD 104 OR INTD 204
AD softw	are to d	o provide students with the specialist knowledge to develop levelop attractive interior drawings (plans, elevations, sectio 3D Max, Rhino and Form Z.				
INTD	215	Digital Visualization in Interior Design	1	4	3	INTD 214 OR INTD 305
rinted pr	esentati design o	s as a primer on computer aided visualization techniques encons. During the course, students integrate media and present concepts. Students gain exposure to the employment of digital lementary Commercial Interior Design Studio	ntation	technic	ues and	d students use software technologies to
		ng on commercial interior environments, the problem solvin				
estaurant o design	ts, lobbio solution:	es, and related interior spaces, it develops concepts to achie s. Topics covered include commercial client needs, branding rier-free access, sustainable design practice, and presentation	eve desi J, space	gn goa planniı	ls and a ng, mat	pply theoretical knowledge and technical skill erial and furniture selection, building code
INTD	217	History of Interior Design	3	0	3	INTD 105
nat influe weep of i	nced an	nto comparative perspective different architecture and desig d formed the modern interior design theory. A series of illus design and architecture across Europe, the Americas, Asia, a ial factors contributing to the development of interior design	strated I and Afri	ectures ca. Em	s and sp phasis is	pecial presentations examines the historical splaced on environmental, technological,
INTD	218	Materials and Finishes in Interior Design	2	0	2	
		r properties are studied in this course. A focus is placed on to in interior design.	the app	ropriate	e select	on, specification, and use of construction and
INTD	219	History of Architecture, Art, and Design	2	0	2	
		gned to give students the specialized knowledge and analys a chronological framework from the ancient civilizations to				
nd desigi nd furnit	ure. Em	phasis is placed on environmental, technological, economic, ecture over time.		cial fac	ctors co	, ,, ,, ,
nd desigi nd furniti esign and	ure. Em	phasis is placed on environmental, technological, economic,		cial fac	ctors co	, ,, ,, ,,
nd design nd furnith esign and INTD his cours earn the l	ure. Emd archited 220 se focuse basics of	phasis is placed on environmental, technological, economic, ecture over time.	, and so	4 ats, villa	3 as, chal	INTD 112 ets, and penthouses. Students are expected t
nd design nd furnith esign and INTD This course earn the l	ure. Emd archited 220 se focuse basics of	phasis is placed on environmental, technological, economic, ecture over time.  Residential Interior Design Studio es on designing small size projects of residential facilities such programming, functional analysis, anthropometrics and erg	, and so	4 ats, villa	3 as, chal	INTD 112 ets, and penthouses. Students are expected to
nd design nd furnith esign and INTD This cours earn the lelection a	ure. Em d archite 220 se focuse basics of	phasis is placed on environmental, technological, economic, ecture over time.  Residential Interior Design Studio es on designing small size projects of residential facilities sucforgramming, functional analysis, anthropometrics and ergo understanding of finishing materials.	, and so	4 ets, villa	3 as, chald lule, spa	INTD 112 ets, and penthouses. Students are expected t
nd design nd furnit esign and INTD his cours earn the lelection a	ure. Emd archited 220 se focuse basics of and basic 221	phasis is placed on environmental, technological, economic, ecture over time.  Residential Interior Design Studio es on designing small size projects of residential facilities such programming, functional analysis, anthropometrics and ergon understanding of finishing materials.  History of Interior Design	, and so	4 ats, villa s, mod	3 as, chaldule, spa 3	INTD 112 ets, and penthouses. Students are expected to

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Interior Desi	gn			
INTD	224	Interior Lighting and Acoustics	3	0	3	INTD 100
luminaires assess the	aims to and end amount	o introduce students to lighting design and the creation of spergy efficiency. The course investigates the physical effects of natural and artificial lighting and acoustic treatment requirements are also incorporated to better understand acoustic	of light iired to	on colo suit v	our. In-o arious fo	depth mathematical calculations are utilized to unctions and clients' needs. Several sound and
INTD	228	Textiles for Interior Design	2	0	2	INTD 218
characteris	stics, use	o give students a broad understanding of technical and funct e and production of textile materials used in interior design; of the textiles considering their favourable properties; and o	the phy	/sical,	mechan	ical, and chemical properties of textile
INTD	229	Theory of Interior Design	2	0	2	INTD 219
students w	vill disco	uces the student to theories of visual perception and concept wer the fundamentals of design, the design process, and creat proxemics, anthropometrics, and ergonomics.				
INTD	230	Digital Visualization in Interior Design I	1	4	3	INTD 214
printed pre	esentatio	as a primer on computer-aided visualization techniques that ons; integrating media and presentation techniques; and usir the digital models and data structures in the built environme	ng softv			gies to elaborate design concepts. Students
INTD	240	Retail Interior Design Studio	1	4	3	INTD 220
agencies (i	i.e., trav	is on designing medium size / medium complexity projects of rel, insurance,etc.). Students are expected to develop a de ulation, while considering the structure of a given building, e	esign cr	iterion	, desigr	concept, functional relationships, spatial
INTD	300	Design Studio I	1	4	3	INTD 211
environme	nt. Proje	continues the study of interior design through research, ana ects include exercises in spatial organization, anthropometric	s and o	irculat	ion on a	
INTD	301	Computer Aided Design I	0	6	3	
INTD	302	Computer Aided Design II	0	6	3	
INTD	303	Materials & Application in Design	3	0	3	
		ts of a study of interior finishing materials with a focus on su		_		istics, estimating, fabrication and installation.
INTD	304	Lighting & Acoustics	3	0	3	<b>5,</b>
	lentificat	es ambient interior systems such as lighting and acoustics. I iion, terminology, analysis, calculations, graphic representati				
INTD	305	Computer Application in Design I	1	4	3	INTD 204
	ın desigi	the CAD world and its 2D implementation in the architecturant sketches into digital format, from basic conceptual diagramectations.				
INTD	306	Building System & Interior Codes	3	0	3	INTD 303
interior wir technical c	ndows, f haracte	nes various interior assemblies on non-load-bearing and, load frames, millwork, and fire-related construction. Emphasis is p ristics and applications of the common materials and finishes fire, health, and safety codes, as well as maintenance and li	laced on the contract of the c	on buil coveri	ding coongs, wa	des, construction materials, visual qualities, Il coverings, textiles, ceiling, and sustainable
INTD	307	Landscape Design	1	4	3	INTD 300
	and sm	ottory and theories of landscape architecture, this course intro all scale landscape developments. Project program, site selec				
INTD	308	Computer Application in Design II	1	4	3	INTD 305
		s students to increase their productivity by using complex of complex view ports and pen styles for plotting, basic custor				
INTD	309	Building Information Modeling (BIM) I	1	4	3	INTD 215 OR INTD 308
concepts a	nd feat	ves focus on fundamentals of Building Information Modeling ures of BIM. It includes software structure and features, moo ring BIM software to develop a set of construction document	leling a			
	310	Design Studio II	1	4	3	INTD 300
INTD	310	Design Studio II				11110 300

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Interior Desi	gn					
INTD	311	Intermediate Retail Interior Design Studio	1	4	3	INTD 216 OR INTD 310		
boutiques, CAD softwa	and oth are in c	es on retail spaces, the problem solving discipline of the interner retail and mercantile settings. Students apply a range of reating retail interior designs, through systematic research and ding and safety codes.	interme	ediate	design s	skills involving both freehand techniques and		
INTD	312	Human Factors in Design	3	0	3	INTD 105		
concepts o topical mat considerati	of humai tter as e ion of h	ots garnered on the elementary level in the Theory of Interior in factors, the anthropometric aspects of ergonomics, that ap efficient design of workspaces, optimal deployment of safety ow differences in the characteristics, abilities, and physical line	plies in equipn	the ut nent ar	tilitarian nd secur	design of interior spaces involving diverse ity features as well as a more general odies impinge on interior design solutions.		
INTD	313	Design & Society	3	0	3	INTD 217		
This course confronts students with the key social issues facing contemporary society and the response of design and visual communication practices to them. Topical content includes design of interior environments in relation to cultural norms, gneder differences, design for the disabled, the elderly and children, as well as the notion of universal design. The course is designed to enable students to think about design and visual culture in a critically engaged way through a case-study approach tailored to illumine cross-cultural differences as a driver of contemporary designed environments. In this course students are also be encouraged to approach their own design practices in a societally reflective manner.								
INTD		Color in Interior Design	1	4	3	INTD 205		
design eler design to g	This course aims to provide the student with knowledge of color used in the interior design profession. This course is a study of color as a key design element with its applications to the practice of interior design. Emphasis will be placed on using color in combination with the principles of design to gain a holistic view of color and design theory. Upon completion of this course, students will be capable of demonstrating and applying the necessary practical and theoretical properties of color to the built environment.							
INTD	315	Garden & Landscape Design	1	4	3	INTD 212		
The course introduces students to principles of landscape design including culture, ecological, spatial, environmental aspects to be considered in planning and designing the landscape areas. This course also focus on design of attractive and functional gardens as a very important part in built environment. Students undertake a site survey and frame a conceptual design consonant with client needs, selecting appropriate hard and soft landscaping materials, with a view to modeling the created design of garden.								
INTD	316	Digital Presentation & Communication	1	4	3	INTD 215		
Students exhibit proficiency in application of advanced 3-dimensional modeling and digital rendering techniques through the use of current industry standard software. As part of a suite of project presentation materials, students acquire advanced skills in digital illustration using Photoshop to create photo-realistic images of interiors in a professional presentation of an interior design project.								
INTD	317	Furniture Design	2	2	3	INTD 213		
furniture. I mass produ construction	It explor uced ap on conne	es on materials, construction technologies, furniture productions the relationship between ergonomics, comfort and function plications, as well as to the development of detailed drawing ections and detailing. The components of this course focus one sthe specification of furniture in interior design projects.	on in th s and i	ie desi model	gn of fu of the d	rniture for both site-specific environments and esigned furniture piece to better understand		
INTD	318	Bahrain Traditional Interior Design	2	0	2			
buildings a	and mon	ourse on the survey and Research of Bahraini traditional internuments in Bahrain such as Bait Siyadi, Al Jasrah House, Al Kaddressed include an overview of the evolution of Bahraini ar	hamis I	Mosque	e, Bahra	nin Fort, and Shaikh Salman bin Ahmed Al		
INTD	319	Lighting in Interior Environments	3	0	3	INTD 205		
cost/benef four function	its. Stud on of lig	es on the fundamentals of light: its sources, variations, qualit dents learn how to integrate appropriate lighting and color ch ht: task, accent, decorative and ambient. Lighting for the sp and evaluated as an imperative creative design feature and f	oices, ecific s	from b ectors	oth tecl	nnical and aesthetic perspectives, covering the		
INTD	320	Hospitality Interior Design Studio	1	4	3	INTD 240		
related ser planning, a	vices (i. and circu	es on designing medium size / medium complexity projects o e., Gallery, museumetc.). Students are expected to develou alation, while considering the structure of a given building, so so. Custom furniture and interior surface treatments.	p a de	sign cr	riteria, c	lesign concept, functional relationships, spatial		
INTD	321	Interior Design Communication	3	0	3			
INTD	322	Interior Materials I	3	0	3			
INTD	323	Interior Materials II	3	0	3			
INTO	224	Puilding Systems	2		2			
INTD	324	Building Systems	3	0	3			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Interior Des	ign						
INTD	325	Lighting	3	0	3				
INTD	327	Design and Society	2	0	2	INTD 240			
practices t disabled, t visual culti	This course confronts students with the key social issues facing contemporary society and the response of design and visual communication practices to them. Topical content includes the design of interior environments in relation to cultural norms, gender differences, design for the disabled, the elderly, and children, as well as the notion of universal design. The course is designed to enable students to think about design and visual culture in a critically engaged way through a case-study approach tailored to illumine cross-cultural differences as a driver of contemporary designed environments. In this course, students are also encouraged to approach their own design practices in a societally reflective manner.								
INTD	328	Furniture Design and Details	1	4	3	INTD 218			
construction knowledge	This course has an emphasis on furniture design, focusing on issues such as the aesthetics of furniture, functionality, ergonomics, methods of construction, sustainability, technology, and technical aspects. The course allows students to study the history of design, then utilize the knowledge to formulate their original designs starting with a conceptual idea, then communicating the idea, and eventually fabricating quality pieces based on their own custom design idea.								
INTD	329	Building Information Modeling (BIM) II	1	4	3	INTD 309			
-standard	Revit so	s students with the knowledge and professional level skills f ftware. Students obtain a comprehensive overview of and e al and commercial facilities across a range of modeling build	mploy	BIM co					
INTD	330	Stage Planning	0	6	3				
		ns the history and development of stage design and the expl e designs through drafting, rendering, and model-building.	loration	of the	design	process. It also explains project work in the			
INTD	331	Residential Designs	2	2	3				
INTO	222	Contract Design Studie	2	2	3				
INTD	332	Contract Design Studio			3				
INTD	334	Comics & Animation	0	6	3				
equipment	t and the	s animation techniques to students with the training and pra e independent production of animated film. A variety of tradi animation stand as well as three-dimensional animation exe	tional a	and exp					
INTD	336	Fine Art Studio	0	6	3				
		es the elements of visual language, their nature, functions, ant and application of critical thinking skills.	and rela	ationsh	ips in p	ainting, sculpture, and architecture. Focus is			
INTD	337	Historic Restoration	0	3	3				
	cability t	examination of the contemporary theories, techniques and propriate or regional and local preservation problems. The course also ects.							
INTD	338	Photoshop	0	6	3				
several too	ols for se e effects	you how to use Adobe Photoshop to perform many differen electing parts of images, and will move, duplicate and resize painting and blending, and colour modification. Also, you were applied to the property of the property o	images	s. You	will lear	n to use layers, layer effects, filters, lighting			
INTD	339	Historic Restoration	3	0	3	INTD 217			
	cability t	examination of the contemporary theories, techniques and propriate or regional and local preservation problems. The course also ects.							
INTD	340	Educational Interior Design Studio	1	4	3	INTD 320			
specialized	l craft in	s on designing large size / high complexity projects of educa stitution (i.e., photography, pottery,etc.). Students are ex chnical issues of lighting and ventilation.							
INTD	341	Islamic Art & Design	0	6	3				
		nalytical study of the history of Islamic art and architecture, under the influence of Islamic culture.	partic	ularly it	ts evolu	tion and development of graphic and			
INTD	342	Islamic Art & Design	3	0	3	INTD 217			
		nalytical study of the history of Islamic art and architecture,	partic	ularly it	ts evolu	tion and development of graphic and			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Interior Desi	ign						
INTD	343	Digital Presentation and Communication	1	4	3	INTD 214			
standard s	oftware.	roficiency in the application of advanced 3-dimensional mode. As part of a suite of project presentation materials, student tic images of interiors in a professional presentation of an in	s acqui	ire adv	anced s	kills in digital illustration using Photoshop to			
INTD	350	Digital Visualization in Interior Design II	1	4	3	INTD 230			
concepts a engines to	This course serves as an advanced level on computer-aided visualization techniques that enable students to create realistic images of the design concepts and animated videos, using walkthroughs and virtual reality; integrating advanced technologies and software; and using rendering engines to elaborate design concepts. Students will be exposed to customized digital modelling and advanced data structures in the built environment.								
INTD	400	Design Studio III	1	4	3	INTD 310			
and histori	This course deals with design problems involving hospitality and entertainment spaces: restaurants, hotels, shopping malls, convention centers and historic interiors. Emphasis is placed on space planning, sequencing of spaces, fixture design and details, signage and logo design, materials and texture, and furnishings and equipment, Projects & assignments include a broad range of interiors for specialized clients.								
INTD	401	Computer Aided Design III	0	6	3				
INTD	402	Computer Aided Design IV	0	6	3				
11115		compact raded besign IV							
INTD	403	Working Drawing & Documentation	1	4	3	INTD 306			
Introduces the production of a comprehensive set of construction documents and an architectural working drawings of interior constructions, such as floor plans, elevations, sections, finish schedules, reflected ceiling plans, interior partitions, stairs, fireplaces, doors, windows, and details. Emphasis is placed on the selection, specification and illustration of appropriate materials, assemblies and components. Students prepare a full suite of documentation (client's brief, conceptual design, work drawings, material planning) in support of a selected interior construction to professional standard.									
INTD	404	Advanced Educational Interior Design Studio	1	4	3	INTD 311 OR INTD 400			
developed problem. I be placed three-dime	where industry practices and design theories are integrated into simulated projects. Students are expected to utilize all theories and resources developed in preceding courses to produce an advanced space planning solution, and complete construction documentation for a major design problem. Demographic, economic, behavioral, conceptual and contextual consideration for a tiered educational facility is considered. Emphasis will be placed on collaborative skills, research, critical analysis and incorporation of sustainable practices. Students also get to use digital media for three-dimensional presentations of design projects are implemented such as AutoCAD 2D, Google Sketch up, Photoshop, 3D Max and Revit to support the Interior Design Advanced Studio Project								
INTD	405	Computer Application in Design III	0	6	3	INTD 308			
	e provide	es students with substantial practice in the creation of 3-dim	ensiona	al, obje	ct-orier				
INTD		Environmental Control Systems	3	0	3	INTD 306			
engineerin efficient bu	ng (instal uilding d	fundamental knowledge of building physics (heat, air and malation concepts and components) in building design issues. Sesign with the final aim of achieving safe, healthy, comfortal actural design and urban planning plays central role.	These a	areas a	re addr	essed in the context of sustainable and energy			
INTD		Portfolio Development	0	6	3	INTD 400			
		es the opportunity to create a portfolio of projects completed are among the discussed topics.	d in pre	evious	interior	design courses. Organization, flow, readability,			
INTD		Drawings & Specifications I	1	4	3	INTD 306			
		plogy of developing a comprehensive set of construction docu ment standards for plans, elevations, schedules, details and :							
INTD	410	Design Studio IV	1	4	3	INTD 400			
		e of this course is to expose students to complex interior des vith: detailed structural solutions, built in components and lig							
INTD	412	Design Psychology	3	0	3	INTD 313			
which the complex in environme characteris	individua nteraction ental vari stics of the	nmental psychology relevant to spatial design, students, em al and the built environment interact, influencing behavior ar n and impact of the built environment on human behavior ex iables. Issues of social and cultural context, gender, health a he built environment.	nd expe xamine and wel	erience d throu I-being	. In this ugh the are ex	s course, students gain an appreciation of the prism of social, behavioral, cultural and amined through environmental factors and			
INTD		Sustainable Design	3	0	3	INTD 313			
sustainable	e or "gre	gned to provide students with the essential knowledge to un een" buildings through the practice of designing, constructing and reduce their impact on climate change.							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Interior Desi	ign			·		
INTD	415	Acoustics	3	0	3	INTD 306		
This course addresses the use of basic sound in design and the principles of sound absorption and isolation within the context of interior design. It focuses on the design of internal spaces emphasizing acoustics in reference to Indoor Environment Quality (IEQ) and complex multifunction building types.								
INTD	417	Advanced Healthcare Interior Design Studio	1	4	3	INTD 403 AND INTD 404		
The course focuses on the interior design of healthcare spaces, the problem solving discipline of the interior design process and its application to hospitals, clinics, assisted living communities, and related healthcare facilities. The emphasis is placed on special needs populations including the cognitively/mentally impaired, geriatric populations, and children. In consultation with the instructor, the student design team selects a special population to research. At completion of research, the student team provides programming, pre-design documentation, tracking documentation and a final design presentation. Students develop facilities in the use of AutoCAD, Google Sketch up, Photoshop, 3D Max and Revit.								
INTD	419	Introduction to Virtual Reality	2	2	3	INTD 350		
		uces the basic concepts and technologies of Virtual Reality (Viting 3D panoramic environments for immersive communicati		using (	on diffei	rent ways to move around. Students will be		
INTD	420	Healthcare Interior Design Studio	1	4	3	INTD 340		
care centre	es (i.e.,	s on designing large size / high complexity projects of health elderly, paediatric, cognitively/mentally impairedetc.). Stu nd technical issues such as buildability, acoustics, safety, and	dents a	are exp	ected d	levelop a comprehensive design with emphasis		
INTD	427	Signage & Wayfinding Systems	2	2	3	INTD 313		
by the hur insight into grid used t	Wayfinding functions to inform people of the surroundings in unfamiliar built environments with a view to highlighting information at strategic points to guide people into the right directions to overcome the fact that complex structures in the built environment are interpreted and stored by the human memory vary such that distances, locations and time are remembered differently than as they appear to be in reality. Students gain insight into landmarks, orientation and navigation as key inputs in strategizing wayfinding designs. Students integrate signage systems in a design grid used to integrate information in the context of four sub-types of signage: Informational signs, directional signs, identification signs and warning signs.							
INTD	429	Kitchen & Bathroom Design	1	4	3	INTD 306		
This cours fundament available f	e helps s tals of de ixtures,	specific technical, ergonomic and functional requirements in students to understand the kitchen and bathroom design pro- esign and layout, including the functional use of space, revie equipment specifications, and cabinetry design and function, rials for durability and easy maintenance.	cess fr w artif	om co icial an	nceptua d natur	Il drawings to schematic design, study the all daylight and ventilation requirements,		
INTD	430	Traditional Interior Architecture	3	0	3	INTD 313		
The aim of this course is to introduce the students to the non-western traditional culture and architecture in different regions in terms of indoor environmental quality and formation of the plan layouts regarding both interior and exterior spaces. The course includes next to the Bahraini, also Indian, Egyptian, Iranian, Moroccan and Far-East traditional architecture and interiors. Main themes include: the characteristics of the non-western interior architecture; the climate & sustainability aspects such as heating, cooling, ventilation, lighting, energy and materials of these traditional buildings.								
22	.02	1 a. m.a. 0 2 aa.g. 1 a aa.a	2	2	3			
INTD	432	Office Design & Planning	0	6	3			
INTD	433	Retail Design	2	2	3			
INTD	434	Research Methodology	3	0	3			
methodolo interiors. 7	gy. Stud They sho	t developing an understanding of and an appreciation for us lents will have a better understanding of the wide range of a uld also come up with some interior design specific knowled quality issues, etc.	spects	that n	nust be	effectively dealt with in designing successful		
INTD	435	Exhibit Design and Installation	2	2	3	INTD 313		
		isizes the aesthetic and functional importance of form and spole design disciplines that come together to communicate ob						

This course emphasizes the aesthetic and functional importance of form and space in exhibit design in commercial and non-commercial settings. Synthesizing multiple design disciplines that come together to communicate objects, information and themes across a range of three-dimensional environments, students, in exhibit design, communicate to target publics through environmental experiences that inform, entertain, and inspire. The discipline considers the exhibition from the perspectives of communication, design and fabrication that involve a mastery of spatial planning, image manipulation, narrative, color, lighting, and multimedia, and working knowledge of structures, typography, combined with an understanding of audience and human factors, to shape storytelling experiences across multiple exhibition venues. Students engage in planning of interior-design environments and scenography for trade exhibitions as well as for a range of festivities, museums, cultural and theatrical events. Students will gain insight into the staging of representative and experiential spaces; for a variety of exhibitions and by means of case studies and attendance at exhibitions, where they will gain firsthand knowledge of the role of such factors as lighting, sound and multimedia effects in installation of exhibit designs.

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Interior Desi	ign			·		
INTD	441	Interior Desing in Business	3	0	3			
2.11.2		and to be a part of the part o						
INTD	499	Project in Interior Design	0	6	3	IDRM 498 AND ETHC 394		
scheme to study, rese	final so earch, a	es the concept of a space. Students investigate site and clier lution. The project is chosen by the student and subject to a nd data collection leading to the development of the graphic If the project solution.	pprova	I by a	senior p	roject advisor and coordinator. Advanced		
INTR	411	BSID Internship	0	12	6	Completion of at least 90 credits		
professiona to provide	al work student	es practical training experience, off-campus on a job site, for environment facilitating their seamless integration into the w s with first-hand experience of the day-to-day functions and ge and skills learned in the classroom with competencies req	ork for duties	ce upo	n gradı operat	uation as interior designers. This course aims ions undertaken by interior designers and to		
INTR	470	BSID Internship	0	0	3	Completion of at least 90 credits		
professionato provide integrate k PHOT The course main menu	al work student nowled 101 e introdu	es practical training experience, off-campus on a job site, for environment facilitating their seamless integration into the was with first-hand experience of the day-to-day functions and ge and skills learned in the classroom with competencies requintroduction to Digital Photography  Introduction to Digital Photography  Integration and the prossibilities provided by a sound knowledge of the prossibilities provided by a sound knowledge of the procession.	ork for duties uired b 2 actice ge pro	of and by the value of the valu	on gradu operat workpla 3 use an within t	uation as interior designers. This course aims ions undertaken by interior designers and to ce.  d get the best from their cameras and the he camera by expanding the user's awareness		
of the camera functions and the possibilities provided by a sound knowledge of the features and basic imaging theory.  Interior Design Masters								
MSID	501	Innovation and Design Process	3	0	3			
process the integrated, life cycle, i	This course enables students to understand how to utilize a sustainable design philosophy that encourages decisions at each phase of the design process that will reduce negative impacts on the environment and the health of the occupants, without compromising the bottom line. It is an integrated, holistic approach that encourages compromise and tradeoffs. Such an integrated approach positively impacts all phases of a building's life cycle, including design, construction, operation, and decommissioning.							
MSID	502	Environmental Systems for the Sustainable Interior	3	0	3			
healthy spacycle.		the systems and materials integrated into one whole sustain imizing negative impacts on the environment and occupants						
MSID		Innovative Building Materials and Finishes	2	0	2			
learners to upholstery	the and frames, red goo es	es critical understanding of major building materials used in alytical methods for determining appropriate choices for desi- fillings, and finish textiles for furnishings, as well as window ds are explored. At the end of this course learners will be ab Energy Use and Thermal Comfort in Buildings	gning a v treatr	and sel nents a	ecting s and floo	oft goods for a sustainable interior including r coverings are covered. Both new and re-		
The course	e covers	the fundamentals of energy demand in buildings while empl	hasizin	g the n	eed for	the comfort and well-being of occupants. The		
buildings,		e demonstrate how energy and wellbeing are correlated to e s to improve thermal comfort while maintaining energy effic				ty, the influences of thermal comfort in		
MSID	512	Advanced Management of Information in a Building: BIM	1	4	3			
industry us learner wil to sustaina	sing Buil I be able able buil	es learners with the critical knowledge of digital transformati ding Information Modelling (BIM) to enhance the building er to apply knowledge related to transformation in the archite ding performance.	nergy e ecture b	fficiend by using	cy and o	cost control. At the end of this course the		
MSID		Building Performance Assessment	2	0	2			
Learners w comfort, a Design (LE	This course provides students with the knowledge and skills to evaluate and assess the performance of buildings from a sustainability perspective. Learners will learn to analyze various aspects of building performance, including energy efficiency, indoor environmental quality, occupant comfort, and ecological impact. Learners will explore different rating systems and certifications, such as Leadership in Energy and Environmental Design (LEED) and WELL Building Standard and understand their criteria and metrics for evaluating sustainability performance.							
MSID		Sustainable Studio -Residential and Contract Environments	1	6	4			
residence,	a reside ne end o	focuses on the challenge of designing a sustainable resident ence within a multiple dwelling, and different contract project of this course learners will be equipped with applied knowled	t types	such a	s corpo	rate, institutional, healthcare, hospitality, and		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Interior Design N			<u> </u>			
MSID	515	Lighting Controls and Systems Technology	2	0	2			
This course current stu certification	This course covers the application of lighting principles to create project documentation encompassing lighting sources and controls. Utilizing their current studio projects, students will create lighting layouts, zoning diagrams, luminaire schedules, and controls specifications including code and certification requirements. At the end of this course the learner will be equipped with critical knowledge and understanding in relation to Lighting Controls and Systems Technology that could be applied in different design solutions.							
MSID		Environmental Life-Cycle Assessment in Interior Design	3	0	3			
learn how aiming to i	The course provides knowledge and practical applications for the use of Environmental Life-Cycle Assessment in Interior Design. Learners will learn how to calculate and optimize the entire life cycle of a building, considering the different phases from production and use to end of life aiming to identify areas for improvement. At the end of this course learners will be equipped with critical knowledge and understanding a comprehensive of the influence of costs and environmental factors on the selection of sustainable design solutions and building system design.							
MSID	524	Passive Design	3	0	3			
This course will allow explorations of passive design principles. The learner will have the opportunity to concretely apply and test these principles using a holistic approach encompassing building technology, building physics, indoor climate and building services. The course also aims to show the potential of thermal and climatic constraints as a guide in explorations and development of configurations and solutions in case study projects. In addition, the course will allow the application of rules of thumb and tools (computer, hand calculations) - acquired in theoretical courses - for thermal balance, thermal comfort, and moisture safety predictions. These tools will be used to feed the iterative design process and inform wise design decisions. At the end of the course the learner will also learn to present passive concepts and strategies using graphic methods in a productive way supported by data (results from simulations or hand calculations).								
MSID	525	Intelligent Building Design	3	0	3			
This course provides an overview of all aspects of intelligent buildings including history; design; components; construction; management strategies; economic implications; effects on the environment; and future trends. An intelligent building is in of an efficient and environmentally friendly design. An intelligent building also optimizes its occupants' circulation and networking, enhancing their collaboration, productivity, and creativeness.								
MSID	526	Constructing the Green Interior	3	0	3			
This course focuses on the practical implementation and construction aspects of creating environmentally friendly and sustainable interior spaces. Learners will gain knowledge and skills related to sustainable construction techniques, materials, and systems specific to interior design in reducing environmental impact, improving energy efficiency, and promoting occupant health and well-being. At the end of this course learners will be equipped with critical and professional skills that could be applied while Constructing the Green Interion towards sustainable environment.								
MSID	550	Research Methodology	2	2	3			
focuses on research. S	develop Students	es students with the necessary knowledge and skills to cond bing a deep understanding of research methodologies, data will learn how to develop research proposals and design reso o sustainable interior design.	collection	on and	analysi	s techniques, and ethical considerations in		
MSID	599	Dissertation in Sustainable Design	0	24	12			
the built er specified to practical do and critical complex is depending	This course will provide a structured supervised in-depth study on a pre-approved topic in the field of field of sustainable design, architecture and the built environment involving one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the learner in a progressive course of intellectual discourse involving problem identification of complex issues related to sustainable design, architecture and the built environment, methodology, the subsequent methodology may vary depending on the selected topic (archives, monitoring, modeling, thermal simulation, etc.), the learner will be required to conduct critical analysis and research, evaluation and recommendation that culminates in the production of manuscript subject to defense.							
		Mass Communication & Publi	ic Rela	tions	Mastre	es		
DMMC	599	Dissertation in Mass Communication	0	24	12	MCPR 520 AND Completion of at least 21 credits		
professiona methodolo	al praction gies of t	etes a scientific dissertation in the communication field on o ce in the various fields of communication. The dissertation in the thesis and a theoretical framework and a review of previous for the study, and represents a scientific addition to	ncludes ous rela	a met ated lit	hodolog erature	ical framework that explains the and an essential part in which the student		
DMPR	599	Dissertation in Public Relations	0	24	12	MCPR 520 AND Completion of at least 21 credits		
facing prac framework								

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Mass Communication & Publi	ic Rela	tions	Mastre	es			
MASC	500	Communications Theories	3	0	0				
and politic communic settings ar role of ma	Commencing with a survey of mass communication theory and the philosophical, sociological and political effects of mass media on audiences and societies, this course examines complex communication behaviors exhibited by stakeholders and publics in corporate and institutional settings and then proceeds by analyzing the news media in terms of its serving as conduits for global information. The course concludes with the role of mass communication in developing nations and its relationship to economic growth, education, socialization, persuasion and diffusion of innovation.								
MASC	501	Basic Concepts in Mass Communication	3	0	0				
and the ty	pes and	with mass communication as a social and psychological phen levels of communication and its effects, the development of mass communication. It also introduces modern means and p	comm	unicati	on thro	ugh the successive periods of history, and			
MASC		Basic Concepts in Mass Communication	3	0	3				
and the ty	pes and	vith mass communication as a social and psychological phen levels of communication and its effects, the development of nass communication. It also introduces modern means and p	comm	unicati	on thro	ugh the successive periods of history, and			
MASC	510	Written Communications & Reporting	3	0	3				
MASC	511	Contemporary Trends in Communication Theories	3	0	3				
communic	ation an	o acquaint students with contemporary theories of communi d its role in modern societies, the functions of communicatio d the study of mass communication in terms of social systen	n, theo						
MASC		News Writing in Arabic & English	3	0	3				
		gned to enhance students' skills in writing news items both i . The course also teaches students features, elements, conc							
MASC	513	Newspaper Editing & Layout	2	2	3	MASC 512			
(format, s	The course explores the differences between writing news items and journalistic reports and introduces the students to the news writing styles (format, structure and techniques). It also deals with the concepts and principles of the artistic layout of newspapers and magazines, traditional publishing methods and the use of electronic publishing software such as "Adobe Photoshop", "Quark Express" and "Audi Streeter."								
MASC		Arab & International Media	3	0	3				
satellites a developing	and the p g countri nd interr	ices the students to various issues in international media such problems of the new world order of media. It also deals with es and the problems arising from the imbalance in the flow on the international organizations and their impact on the international organizations.	the thof	eory of mation	inform between	ation flow between the developed and en them. It addresses the issue of unions and			
MASC	515	Electronic Journalism	3	0	3				
		o introduce students to the types and advantages of electron n and editing and deals with the differences between news e							
MASC	516	Advanced Writing for Journalism	2	2	3				
MASC	517	Newspaper Design & Layout	2	2	3				
MASC	317	Inewspaper Design & Layout			J				
MASC	518	New Trends in New Media Studies	3	0	3				
MASC	519	New Trends in Digital Journalism	2	2	3				
journalism editing of field of ele	The course deals with the features of digital development in the infrastructure of media and communication on the Internet, reviews digital journalism and its characteristics, forms and levels, deals with the practical experience of journalists and editors in network journalism, design and editing of electronic newspapers, review of the economics and management of electronic newspapers, the use of computer applications in the field of electronic publishing, getting acquainted with modern technologies in the field of digital journalism, and creating an electronic newspaper with its full contents.								
MASC	520	Broadcasting & Media	3	0	3				
MASC		Writing and Managing the Electronic Content	2	2	3	the marid developer of C.P. 2. I			
processes, building th	, and the ne media	s about recent trends in digital production in terms of the pra- e scientific dimensions represented by the interest of modern message and its effects on the public. This course requires hnologies and management, with regard to editing, advertisi	scient	ific stu oductio	dies in t n of me	the roles of digital production techniques in			
MASC	ř –	Analysis of Radio and TV Discourse	3	0	3				

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Mass Communication & Publ	ic Rela	tions	Mastre	es			
philosophi discourse.	cal bodie Througl	shes a theoretical introduction to the concept of discourse and es that dealt with it, adopted it and established it, such as the n a methodological approach concerned with the semiotic and not nomenclature through the analysis of its sign system in its	e Frencialysis o	ch and of texts	Germa related	n theory and the masters of American If to the content of the course in all its forms,			
MASC	523	Data Journalism	2	2	3				
assimilate student wi	The course develops the student's skills in collecting, analyzing, and simplifying large digital data so that the target audience can understand and assimilate it. The student will become familiar with the tools for collecting digital data, working with tables and statistics, and rewriting them. The student will also be trained on how to take advantage of the available techniques in extracting and revealing hidden stories between numbers and dealing with documents, and producing them in the form of traditional press templates such as news stories, reports, and investigations.								
MASC	524	Drama and Critique in Radio and TV	3	0	3				
The course covers the concept, breadth, and types of drama theory, in order to identify the most prominent differences of its different types. It also establishes a knowledge and cultural base for the techniques of applied and analytical criticism through the most famous schools and modern theories in the practice of criticism operations. It also opens a wide field in the practice of criticism operations through a number of applications. In-depth exercises on dramatic texts aim at developing critical abilities and skills in light of the standards necessary for each of the two mediators.									
MASC	525	Seminar in Communication Research	3	0	3				
is discusse	d. Cours	of communications research, various subfields are identified se content varies in accordance with student interests and the	e most	recen	t develo				
MASC	534	Social Media and Digital Culture	3	0	3				
The student builds a cultural perception of the Internet and digital media. This course examines the impact of social media on culture in the modern world. Analyzing the social, cultural, political, and educational dimensions of social media, and presenting a study showing this perception. Topics covered include media elements, media technologies, media industries, media transformation, building news, expanding and transforming advertising, media and the public sphere, and network society.									
MASC	535	Mass Media & Information Technology	3	0	3				
This course traces the development of information and communications technologies (ICTs) with a view to providing an overview of current and prospective developments in telecommunications as a theoretical basis for assessing the potential of these technologies in media-related institutions. Legal, regulatory, economic and social issues that the employment of these technologies pose for telecommunications and media industries also receive attention.									
MASC	537	Investigative Journalism	2	2	3				
course inc	The course trains students on how to research, create, and present an investigative story using professional journalistic skills and techniques. The course includes teaching various investigative techniques, including the skills of obtaining information from formal and informal sources, conducting interviews, using public records and documents, and conducting research.								
MASC	539	Writing for Radio and TV	3	0	3				
The stude stylistic co	nt adopt ntradicti	erned with building the student's cognitive skills in the field is the theory of reverse engineering in slicing and deconstructions of the models to complete models in various programs in to demonstrate the cognitive skills acquired.	ting m	odels f	rom the	two expressive media, and then adopts			
MASC	540	Visual Mass Communications	3	0	3				
	T	· · · · · · · · · · · · · · · · · · ·	T _	-	T -				
MASC	545	Political Communication	3	0	3				
	onship b	nd theories of political communication are presented and dis etween media and governments in different political systems							
MASC	550	Advanced Writing & Reporting for the News Media	3	0	3				
Students of	develop a	dents conduct intensive reporting, researching and write in- a journalistic style and explore	•						
MASC	560	ed with handling of news features and are encouraged to pu Television & Radio Production	dish u	0	1 article	25.			
		dents obtain intensive exposure to television and radio production				o production techniques, and technical			
equipment	t. Studer	nts conceive and design individual production projects that u process from pre-recording or shooting conception to post-pro-	tilize st	udio, f					
MASC	561	Television & Radio Production	2	2	3				
equipment	t. Studer	dents obtain intensive exposure to television and radio produ nts conceive and design individual production projects that u process from pre-recording or shooting conception to post-pr	tilize st	udio, f					
MASC	562	Techniques of Radio & Television Production	2	2	3				
		<del></del>							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Mass Communication & Publi	c Rela	tions	Mastre	•		
MASC	563	Advanced Radio & TV Production	2	2	3			
MASC	303	Advanced Radio & TV Froduction						
MASC	570	Modern Communictions Technologies	3	0	3			
		S						
MASC	575	Graphics & Multi-Media	3	0	3			
This course introduces students to the application of graphic arts to mass communications. The								
relationship among text, type and image in communicating information in basic layout on the one hand and newsmedia image and story-telling is explored in depth. Students develop their own projects using graphics and multimedia.								
MASC	580	Media Ethics & Laws	3	0	3			
This cours	e provid	es an overview of the history of media freedom and control	with re	spect t	o the			
ethics and	laws rel	evant to the issue. Conflicts between media practices on the	one h	and an	d the ri			
		in depth involving freedom to disseminate information versult the proper balance between controlled and free media is d			privacy	y. Media practices in different political systems		
MASC	585	Special Topics in Print-Journalism	3	0	3			
Topics spa	n recent	developments in print journalism and socio-economic, politi	cal and	d cultu	ral aspe	cts of society. Course content varies with the		
backgroun	d of the	instructor and the interests of the students.				·		
MASC	590	Special Topics in Electronic Journalism	3	0	3			
		developments in electronic media and socio-economic, polit						
aspects of the studen		Course content varies with the background of the instructor	anu u	ie intei	ests of			
MASC	595	Dissertation in Mass Communication - Track 2	0	12	6			
The student conducts a study on a topic in the field of mass communication under the supervision of a faculty member. The final written								
manuscript which includes problem identification, methodology, research evaluation and discussion of the findings is subject to a panel evaluation.								
MASC	598	Project Dissertation in Mass Communication	0	6	3			
		cts a study on a topic in the field of mass communication ur						
of a faculty	y memb	er. The final written manuscript which includes problem iden				gy, research evaluation and discussion of the		
		to a panel evaluation.						
MASC	599	Dissertation in Mass Communications - Track 1	0	24	12	MCPR 520 AND Completion of at least 24 credits		
A research	focused	I study in the field of mass communication which aims to drangages the student in a progressive course of intellectual dis	aw on p	oractica	al data t	to assess critically a specified area or topic		
evaluation	and rec	ommendation that culminates in the production of manuscri	ots sub	ject to	public (	defense.		
MCPR	510	Writing for Mass Media & Public Relations	3	0	3			
Intensive r	esearch	ing, writing and reporting of in-depth news articles for both	print aı	nd elec	tronic r	nedia demands from students that they		
		journalistic style to explore and report issues. Students prep other public institutions. Students gain experience conducting						
MCPR	511	Contemporary Trends in Communication & PR Theories	3	0	3	and composing brochares and prospectuses.		
		with contemporary theories and their modern trends in the fi	_		_	lic relations, and their place in contemporary		
		fing students with contemporary theories regarding the study						
		relations among them and the means of communication, as cation, and also deals with the mechanisms of employing sci						
		d public relations.	CHUIL	uicone	.5 111 103	search and studies in both mass and network		
MCPR	520	Research Methods in Mass Communication & PR	3	0	3			
This course covers qualitative and quantitative methodologies for research in the field of mass communications and public relations. It covers commonly used methods of social research applicable to the field and focuses on developing skills to evaluate research critically and to empower								
	the student to conduct his/her own major research project. Among the techniques imparted are search strategies and techniques for accessing information sources (both electronic and print) and for evaluating the outcomes of such searches. In addition to topics of research design and							
the studen								
the studen information scientific lo	n source ogic, the		s of su s with a	ch sea a view	rches. I to focus	n addition to topics of research design and sing on collecting, organizing, and using data		

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	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Mass Communication & Pub	lic Rela	tions	Mastre	es	
MCPR	521	Research Methods in Mass Communication and Public	3	0	3	Completion of at least 9 credits	
		Relations					
commonly he studer information scientific l is an aid	vused mont to cont on source ogic, the to assess	qualitative and quantitative methodologies for research in ethods of social research applicable to the field and focuses duct his/her own major research project. Among the technies (both electronic and print) and for evaluating the outcome course introduces a variety of statistical methods of analyst information systematically. Research and information gathorting and strategic use of research findings.	on development on development of the development of	eloping parted ch sea a view	skills t are searches. I to focus	to evaluate research critically and to empower arch strategies and techniques for accessing n addition to topics of research design and sing on collecting, organizing, and using data	
MCPR	525	Seminar in Contemporary Communication Research	3	0	3	MASC 511	
oarticular,	it focus	a survey of research in mass communication and public relacts on the most recent developments in the field of communiting of research papers.					
MCPR	530	Public Opinion Formation & Measurement	3	0	3		
distributio	n and ex	es the literature on public opinion. Perception of the social appreciation, and conformity are investigated. Recent trends in plored. Students poll public opinion on topics of contempora	public o	pinion			
MCPR	550	Research Methods & Modeling	2	2	3	Completion of at least 9 credits	
The main objective of this course is to enhance the student's capacity to understand as well as to conduct scientific research in mass communication & public relations. The course focuses on providing students with basic skills in scientific research, including identifying the problem, developing research proposals, employing appropriate research tools, formulating and testing hypotheses, collecting and analyzing data and, finally, writing a research report. The course also presents both quantitative and qualitative methods applied in mass communication & public relations research.							
MCPR	565	Seminar in Contemporary Communication Research	3	0	3	MCPR 550	
articular,	it focus	a survey of research in mass communication and public relacts on the most recent developments in the field of communiting of research papers.					
PREL	500	Contemporary Public Relations	3	0	0		
again esse managem	ential ins ent. In a	is on understanding the objectives and strategies that shap- ight and skills in diverse fields as: human relations, psychol global business environment rocked by corporate scandals erve intact their corporate images and reputations. This cou	ogy, cus , public	tomer relatio ores h	relatior ns proje ow info	ns, advertising, labor relations and knowledge ect a consistent, well-informed ethical voice for mation can be conveyed to diverse audience	
create		ons and project positive images that increase corporate valuitions, particularly corporations, build and retain relations o					
o create		ons and project positive images that increase corporate valu					
o create   ssue of he PREL his cours oublic rela	501 se introdutions, its	ons and project positive images that increase corporate valuations, particularly corporations, build and retain relations of	credibi 3 s light o betweer	0 on its h	h the note that the note of th	ews media is addressed.  I development. It deals with the definition of of public relations and other concepts. It also	
o create   ssue of he PREL this cours sublic rela dentifies	501 se introductions, its the functions 502	ons and project positive images that increase corporate valuations, particularly corporations, build and retain relations of Basic Concepts in Public Relations cuces a scientifically-based public relations concept and shed origins and evolution through history and the relationship cions and objectives of public relations and the means of comparison of the public Relations	s light of the street of the s	on its he cation u	o istorica oncept sed to	ews media is addressed.  I development. It deals with the definition of of public relations and other concepts. It also achieve their goals.	
o create   Ssue of he PREL This cours ublic related this cours PREL This cours ublic related this cours ublic related this cours	501 se introductions, its the functions its see introductions, its see introductions	ons and project positive images that increase corporate valuations, particularly corporations, build and retain relations of Basic Concepts in Public Relations  uces a scientifically-based public relations concept and shed sorigins and evolution through history and the relationship cions and objectives of public relations and the means of co	s light of the second s	lity wit  0  on its h the co ation t  0  on its h the co	h the notation of the sed to a	ews media is addressed.  I development. It deals with the definition of of public relations and other concepts. It also achieve their goals.  I development. It deals with the definition of of public relations and other concepts. It also	
o create   ssue of he PREL This cours public rela dentifies t PREL This cours public rela	501 se introductions, its the functions its see introductions, its see introductions	bus and project positive images that increase corporate valuations, particularly corporations, build and retain relations of Basic Concepts in Public Relations concept and shed to origins and evolution through history and the relationship income and objectives of public relations and the means of compassions and objectives of public Relations and the means of compassions and public Relations concept and shed as origins and evolution through history and the relationship origins and evolution through history and the relationship	s light of the second s	lity wit  0  on its h the co ation t  0  on its h the co	h the notation of the sed to a	development. It deals with the definition of of public relations and other concepts. It also achieve their goals.  I development. It deals with the definition of of public relations and other concepts. It also	
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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Mass Communication & Publ	ic Rela	tions	Mastre	•			
PREL	515	Public Relations & Information Campaigns	3	0	3				
This course trends requ explores co	This course provides a comprehensive overview of concepts, analytical techniques and methods to assess audiences, target markets and vital trends requisite to develop a public relations strategy in the context of a complex and rapidly changing world and media environment. The course explores contrasting public relations strategies in international strategies in international settings employed by multinational corporations, governments and interest groups. Students apply communication and public relations methodologies to plan public relations campaigns.								
PREL		Media Production for Public Relations	2	2	3	, ,			
brochures,	pamph	the basic media techniques in print and broadcast production lets and films and focuses on the use of web site and online e its relations with the public.							
PREL	519	Strategic Communication and Crisis Management	3	0	3				
The course covers the role of activities in contemporary organizations, especially in the crisis stage, which has become a fait accompli, which prompted various organizations to take care of communication, as it is among the foundations upon which to do various work and activities. The course also deals with training students on the practical application of theories, strategies and tactics from the perspective of public relations, which focuses on the role of public relations in communication. The student will analyze the crises of companies and institutions to understand communication strategies through the use of case studies and participatory exercises. The course is also focused on training students on how to use communication strategies in different companies and institutions on similar crises facing society at the present time.									
PREL	520	Public Relations Management	3	0	3	PREL 511			
This course develops and strengthens communication management skills through assimilating the public relations function with corporate goals and activities. In addition, students analyze how management of information shifts the way public relations professionals influence various publics consonant with corporate goals and activities. Students are expected to investigate the roles of various public relations practitioners in applying the techniques of public relations to support management strategies and corporate decision- making. At the end of the course, students create a 5-year corporate image campaign for a chosen company that positions the company in a favorable position from the vantage-point of its corporate stakeholders in accordance with corporate long-term strategy.									
PREL	521	Marketing & Advertising in Digital Media	2	2	3				
PREL	526	Digital Public Relations	2	2	3				
and to prov	vide stu le of the	introduce digital public relations, its importance and method dents with the skill towards analyzing practice methods and use means in communicating with stakeholders, the media aring sites in public relations, and to apply the theories of public relations.	how to	choos public.	se social By trair	networking sites, websites and digital media, ning students on how to employ the Internet			
FNLL	331	Integrated Marketing Communication		L	ر				
PREL	535	Integrated Marketing Communication*	3	0	3				
products, i	deas an e inculca	uces students to marketing communication tolls, strategies, d d services. The course emphasizes how various marketing contents how to best mix marketing communication tools in a streas.	ommur	nication	areas	work together to create a cohesive message.			
PREL	538	Planning and Management of Advertising Campaigns	2	2	3				
promotion. advertising degree of c considerati advertising to design a	The course deals with how to plan media and advertising campaigns in light of the great role that the art of marketing of all kinds plays in promotion. It also deals with the advantages of media and advertising campaigns, defining advertising goals, the importance of planning advertising campaigns and types of campaign planning in terms of time dimension, degree of comprehensiveness, geographical dimension and degree of centralization, the most important variables and factors influencing when preparing advertising campaigns, the most important considerations for the marketing thought of the organization, stages, foundations and mechanisms of planning and management Media and advertising campaigns, and training students on how to analyze and evaluate the different elements contained in advertising campaigns, and how to design and plan successful advertising campaigns.								
PREL	545	The Art of Public Relations	3	0	3				
messages to presented, Illustrative	This course provides students with the advanced skills necessary to develop creative ways to prepare, present and direct public relations messages to both specific publics and the mass media. Alternative strategies and techniques to address contrasting media standards are presented, debated and applied. Special attention is accorded to social responsibility in handling issues related to public and community interests. Illustrative case studies drawn from the practice of public relations in different countries are analyzed. Students learn how to prepare for and deliver press conferences, to issue various kinds of press releases and to design public relations advertisements.								
PREL	550	The Practice of Public Relations*	3	0	3				
designers, technologie	photogi es on pu	s the entire practice of public relations spanning roles, ethic raphers and film makers; conducting exhibitions and fairs; w ublic relations practice; and planning, programming, assessin ts conduct individualized research on a variety of topics as a	orking ng and	with th evalua	ne medi ting pro	a; understanding the impact of recent jected public images and public relations			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
	•	Mass Communication & Publ	ic Rela	tions	Mastre	es			
PREL	560	Organizational Communication & Corporate Image	3	0	3				
enhance t monitor th corporate	A comprehensive analytical study of organizational communications behavior drawing on a variety of social science theories is provided to enhance the students' understanding of the practice of public relations and communications in different organizations. In this course, students monitor the political, social and economic environment, on both the national and international levels, with a view to assessing issues relevant to corporate public affairs and to the formulation of communications strategies. Students engage in advocacy, constituency communication and corporate image creation and modification.								
PREL	564	Advanced Writing in Media & PR	2	2	3				
PREL	570	Special Events & Protocol	3	0	3				
A primer on planning, preparing for and delivering effective communications for special events, this course imparts to students a complex array of oral, audio and visual presentation skills. In particular, this course acquaints students with the necessary protocol to manage events involving VIPs and Royal personages. By role-playing, students experience and practice the application of protocol to public relations activities involved in special events.									
PREL	580	Public Relations & Crisis Management	3	0	3				
This course provides students with the necessary tools to review and diagnose major crises affecting corporations, governments and other institutions through case analyses of different types of crises: technology, confrontation, natural disasters, skewed values, deception and misconduct. Local, national and international cases are presented and discussed. Students are encouraged to evaluate appropriate management decisions, actions and communications before, during and after a crisis through the following stages: monitoring, analysis, strategy determination and implementation. The course focuses on advances in sophisticated management techniques related to the crisis and risk management functions of a public relations unit. Wide varieties of case studies on crisis management are introduced and students are expected to participate in a crisis management simulation.									
PREL	590	Special Topics in Public Relations	3	0	3				
		the field of public relations varies with the background of thout small-scale field studies on designated topical areas of pu							
PREL	591	Special Topics in Advertising	3	0	3				
Topics spa backgrour	an recent	t developments in electronic media and socio-economic, poli instructor and the interests of the students.	tical an	d cultu	ral aspe	ects of society. Course content varies with the			
PREL	595	Dissertation in Public Relations - Track 2	0	12	6				
	ot which	acts a study on a topic in the field of mass communication ur includes problem identification, methodology, research evalu							
PREL	597	Public Relations Project	0	6	3	Completion of at least 24 credits			
	n of the	s either a theoretical or practical problem in the field of publ project, a student submits a final written report and makes a							
PREL	598	Project Dissertation in Public Relations	0	6	3				
of a facult	ty memb	icts a study on a topic in the field of public relations under the r. The final written manuscript which includes problem iden to a panel evaluation.				gy, research evaluation and discussion of the			
PREL	599	Dissertation in Public Relations - Track 1	0	24	12	MCPR 520 AND Completion of at least 24 credits			
dissertation	on engag	d study in the field of public relations which aims to draw on es the student in a progressive course of intellectual discour commendation that culminates in the production of manuscri	se invo	lving p	roblem	identification, methodology, research,			
		Mass Communication & F	Public	Relati	ons				
ETHC	393	Ethics and Professional Practice in Mass Communication and Public Relations	3	0	3	MASC 202 AND Completion of at least 66 credits			
addresses provide at	question question question	es students with a theoretical foundation that enables them ns such as: Is it necessary for professional journalists to be t private lives of public figures? Through analysis and discussi aning of justice; the reciprocity gene; free speech and how be	tied by ion of c	moral e ase stu	ethics? Idies it	How much information should the media deals with the role of the media and journalists			

freedom of the press.

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Mass Communication & I	Public	Relati	ons	
ETHC	397	Media Law and Ethics	3	0	3	MCPR 101 AND Completion of at least 66 credits
violating le concept of media cod data disse	egal and f profess les of etl minatior	o familiarize students with their legal and moral rights and d ethical rules. The course deals with the concept of morality ional ethics, the concept and principles of law, media law, le nics, and media practitioners rights and duties. The course a s, intellectual property rights, legal and ethical rules regulation trols for new media.	and et egal and lso cov	nics, th I legisla ers crir	e princ ative fra ninal lia	ples of freedom of opinion and expression, the ameworks regulating the media, journalism and bility and publication, rules and ethics of crime
INTR	412	BSMCPR Internship	0	12	6	Completion of at least 90 credits
INTR	471	BSMCPR Internship	0	0	3	Completion of at least 90 credits
applied pro enable the practice in	ofession em to int the rea aining, d	course (Internship) provides students with an opportunity to all and personal skills, as well as developing student's skills segrate their acquired knowledge through classroom learning professional environment. The professional field training pruring which the student will be assessed by professional ancrements.	o that to with the ogram	they ca he prac require	n acqui ctical co es that t	re planned practical learning experiences to mpetencies and skills available through the student spend at least 240 hours of on-
IREL	101	International Relations	3	0	3	
specific pr power, so the future	oblems i urces of . The co	nes the theory of the nature and uses of power through cover n international relations in the world today. The course cover international conflict, the nature of war and strategy in the furse concludes with an analysis of foreign policies and the round Middle East in the light of international political development	ers a wi twentie ole of M	de vari th cent	ety of t ury, me	opics. Basically it tackles elements of national easures to resolve conflicts, and prospects for
MASC	101	Principles of Communication	3	0	3	
component communic MASC Students a	ats of the ation efforth	es students with the basic knowledge needed to start their est communication process, communication channels, and compects is explored.  Introduction to Journalism & Print Media he meaning, sources and the production of news, the structulation, press institutions, advertising and other pressures o	3 aure and	0 langu	orms. TI 3 age of	nen a tour of what is communicated and news writing, ethical considerations in news
		g, research in journalism, representation and bias, objectivi				
MASC	202	Theories of Mass Communication	3	0	3	MASC 101
communic sociologica media. Stu	ation are al perspe udents o	gned to acquaint students with a number of different theore e subject to a systematic examination from various perspect active; perspectives involving an active audience cognitively obtain an appreciation of the origins of mass communication attect of the use and presentation of images and information.	ives: co interact theory	mmun ing wit	ication h medi	effects, from both a psychological and a; and an organizational/institutional view of
MASC	203	Public Speaking	3	0	3	MASC 101
present sp course is o	eeches on work	c principles of communication to the art of public speaking on both formal platform settings and informal group discussion behind-the-scenes: organizing ideas, structuring messages, for evaluating oral discourse.	ons. Wi	thout i	gnoring	extemporaneous delivery, the emphasis of the
MASC	204	Introduction to Radio & Television	3	0	3	
document	ary mate	ory of radio and television and their relationship to other me erials for radio and television, production formats, station op ons and trends. They also gain insight into journalistic and p	eration	and m	anagen	nent, governmental regulations, and
MASC	205	Media Outlets in Bahrain	3	0	3	
(newspape	ers - rad	about the stages of emergence and development of media to and television - cinema - social media) and focuses on the itical and developmental development in the Kingdom of Ba	e impor	tance o	of these	means of communication with the march of
MASC	206	Writing for TV and Radio	2	2	3	MCPR 102
difference the techni in radio ar	s between ques of and televis	o identify the concept of writing for radio and TV and the chen writing for radio & TV, provide students with the most im the template (talk show - drama - newsletter - advertisemer sion programs, get familiar with the steps of editing for culture media codes and the editorial policy of radio and TV institute.	portant nt etc ıral, ne	writing .), prov ws, ent	j techn vide stu	ques for radio and TV programs according to dents with the types of script which are used
MASC		Mass Media and Society				

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Course Cod	e Course Title	Lec	Lab	Cr	Prerequisite
	Mass Communication & F	Public	Relati	ons	
implications on s covering traditio	ses on the developments of conventional and new media outle ociety. The course thoroughly highlights the role that media p nal as well as modern media theories, the course encourages on audiences. The course in reverse also examines the role of a	lays in student	projec s to di	ting soc ssect th	iety and reshaping its culture. Through e powerful dynamics of media institutions and
MASC 309	Journalism Writing	2	2	3	MCPR 243
interviews, types articles of all kin approaches to w	des the rules and skills of investigative reporting, press report s of questions, methods of formulating and constructing them. ds, writing reports, and expository as well as critical essays of riting (narrative style, descriptive styles, personalization techn planning, implementation, and writing for the arts and forms j	The co works ique, a	ourse a of art a nd pre	Iso inclu and liter cision jo	ides studying the rules and skills of writing ature. It also looks at the use of modern burnalism). The course is based on practical
MASC 310	Digital Journalism	2	2	3	ITMS 205 AND MCPR 243
Internet, levels of journalism. The and printed jour	s with the concept of online journalism on the Internet, its type of interactivity, the role of readers in contributing to the editing course also is concerned with the design of online journalism, advertisements in online journalism as well as practica	g of onl the fut	ine jou ure sce	ırnalism enarios	and technical templates for editing online regarding the mutual influence between online
MASC 311	Feature Writing	2	2	3	MASC 206
trains students or research, fact-ga	duces students to feature journalism including profiles, immers on using journalistic and storytelling methods to – through assi othering, investigating, editing, reporting, interviewing, structu urnalistic projects (features)	gnmen	ts- pro	duce or	iginal features. The course thoroughly covers
MASC 320	Graphics & Multimedia	2	2	3	ITCS 101
desktop publishi will be guided st	werful design and production tool that perfectly embraces feat ng. This course provides a hands-on introduction to InDesign, ep-by-step, learning to set up a document, create master page ng the painting and editing tools and filters, and apply techniq	in whices, and	h stud place	ents be text and	come familiar with the InDesign interface and d graphics. In addition, students work with
MASC 322	Newspaper & Magazine Layout	2	2	3	MCPR 243 AND MCPR 206
of journalistic ou student also lead techniques of ar familiarizes the	to provide the student with the skills of design and production tput and its functions, design concepts, basic theories and its ins about the typographic and graphic elements and how to utistic production of newspapers, referring to the differences bestudent with the methods and techniques of the front, back pang the course, the student is trained in the journalistic product	compoi ilize the tween ges and	nents, em in p the ou d inside	and visi press protection tput of a e pages	ual and aesthetic variables that govern it. The oduction, in addition to the methods and a newspaper and a magazine. The course also, as well as tabloid newspapers and
MASC 328	Script Writing	3	0	3	ARAB 201
script writing, be and overlapping including its vari work, theme uni This is accompa	to train the student on practical ways of preparing and writing eginning with studying the theory of script and the methods of of followed by the components and characteristics of each formous aspects such as its philosophical nature, technical treatment, division of information and events, artistic form, character, paied by analyzing, critiquing and deconstructing selected moded des writing exercises for many scenes to write a shooting scriptio.	drama  n. The s  nt, arra  olot, con  els from	buildir studen angeme nflict a globa	ng, and t is ther ent of so nd devo I scenar	the forms of the scenario (sequential, parallel introduced to the literary script writing stage, cenes, leading up to up to the whole Scenario elopment and ways of excitement and thrill. ios, thus enhancing student writing skills. The
MASC 330	Political Communication	3	0	3	PREL 220
,	ole of media in political life and of the media government relat itical campaigns as well as media and foreign policy.	ionship	in diff	erent p	olitical systems. Topics include political
MASC 340	Radio Production	2	2	3	MCPR 101 AND MASC 328
deals with the te	s with all stages of production for radio, where the student lea chniques of writing radio scripts for drama programs. It also of I in radio production. Radio and audio directing and editing in h programs.	leals wi	th the	directo	's tools, radio production elements, and
MASC 34	TV Production	2	2	3	MCPR 208
into television te shooting manag provides them w night shooting to	e of this course is to introduce students to the stages of televi mplates, as well as understanding the roles and responsibilitie er, decorator, studio manager, etc.). Besides providing student ith the skills for setting up locations and planning shooting state echniques, the types of lighting used for each, how they are differences between live and recorded television production.  Radio and TV Directing	s of the ts with ges, as	e televi the ba well a	ision tea sic com is under	am (director, editor-in-chief, scriptwriter, ponents of a television studio, this course also estanding the differences between day and

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Mass Communication & F	Public	Relati	ons	
understand manager, identify the basics of to to the natu	ding and provide : e types of elevision ure of the	o introduce knowledge of the director's and his/her assistant realizing how to implement the script into audio or visual control students with information about the stage of television shown the stage of television shown the most and their uses, identify the most important processing formation, understand the lighting techniques, identify the television template, identify the types of cameras, their pass and impact on the perspective of the image.	ontent ting or progran ify the	in coop radio i ns used differe	peration recording in the nces be	with the editor-in-chief and shooting g, realizing the techniques of radio directing, radio production process, get familiar with the tween the components of the decor according
MASC	343	Digital and Mobile Journalism	1	4	3	MASC 311
contributir journalism	ng to its and mo	is the concept, types, features, and techniques of online jou content and interactivity levels. The course discusses further bile journalism in terms of reporting methods, storytelling, c utilizing smartphones/applications to write, edit and produce	the sillesign,	milariti advert	es and o	differences between the techniques of digital c, and production process. The course also
MASC		Media Editing in English I	2	2	3	ENGL 210
news, repo	orts, arti	t developing students' skills in writing and editing the variou cles, etc. The course covers editorial rules of the media cont ns and media topics in various templates and forms in Engli	ent in I			
MASC	350	Digital Photography & Audio-Video	2	2	3	MASC 320
images an capturing manipulati	d visual and man on softw	the historical, technical, operational and creative aspects of sequences that tell a story, communicate an idea, illustrate ipulating images are explored in a workshop type atmosphe are is emphasized. Students will be expected to complete a ir understanding of the technical and aesthetic aspects of the	a them re. Har series	e, or on one of tuto	onvey a experie orials an	message. Techniques of planning, refining, ence with digital cameras and image d create several portfolio images
MASC	351	News Writing & Reporting	3	0	3	MASC 201 AND MASC 204
investigate developed	the mo for indiv	iques used to research and report complex political, social, a st common areas covered by reports, including education, le vidual reporting projects in print, broadcast, and digital medi to public affairs reporting.	egal aff	airs, a	nd othe	r governmental entities. Strategies are
MASC	355	Digital Photography & Video Production	2	2	3	MCPR 206
presenting phase of d content. Ir about the artistic and use of soft other tech	models ligital vic this co basic us d technic ware for nical and	art, this course explores the concepts and knowledge associ- of films and documentaries. The practical aspect, however; leo production. Practical training includes the basics of using urse, the student learns the concepts, principles and techniq es of photography in the field of journalism, including the us- cal conditions and criteria (modulation, lighting, depth of the rediting, processing digital images, printing along with the us- dieducational. The main aim of the course is to teach the main treflects a high sense of commitment to ethical standards	include a vide ues an se of th field o use of in	es teaces to came de aestle came fimages	thing stuera to control  thetics as to pera to pera to pera to pera use in comperate to the	idents the artistic and technical skills of each arry out the production of video and television associated with photojournalism. He/she learns roduce a press report in conformity with assition) The student is introduced to the design and advertising, as well as in some
MASC	360	Communication Research Methods	3	0	3	MASC 101
		entific and research methods for mass media and public rela studies, field surveys and experimental design.	tions: l	historio	cal analy	rsis, case studies, content analysis, readership
MASC	370	Media & Law	3	0	3	MASC 101
studies. To press cont	Review of the development of the legal aspects of the press and other mass media through case studies. Topics include social responsibility and ethics of mass communication, free press versus press control, libel, contempt, obscenity, privacy and source protection, the people's right to know, publication laws and regulations.					
MASC	380	Persuasion	3	0	3	MASC 202
campaigns	. Messa	uces students to persuasion theories and how to use them in ge, attitude and behavior relationships are discussed in relat fects. Factors related to source, message, medium and aud	ion to (	develo		
MASC	390	Design & lay-Out of Print Media	2	2	3	MASC 351
designed t	o advan	es the various aspects of print media design and layout. Cou ce an understanding of design tools, design principles, artisa nd concepts. The course covers typography, layout and gen	nship a	and co	nceptua	
MASC	410	Media Translation	3	0	3	ENGL 202
practical p acquire a v	ractice, i wide ran	t providing the student with the professional skills needed to translates several texts published in newspapers, magazines ge of terminology, idiomatic expressions and abbreviations of trabic, as well as the ability to edit translated texts to reflect	, media used in	a sites the m	and nev edia and	ws agencies. The course helps the student to develop his skill in translating these

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Mass Communication & F	Public	Relati	ions	
MASC	411	Media Translation	2	2	3	ENGL 202 AND MASC 309
practical pr acquire a v	actice, vide rar	It providing the student with the professional skills needed to translates several texts published in newspapers, magazines age of terminology, idiomatic expressions and abbreviations un rabic, as well as the ability to edit translated texts to reflect	, media used in	sites the m	and nevel	ws agencies. The course helps the student to develop his skill in translating these
MASC		Media Editing in English	2	2	3	ENGL 202 AND MASC 309
news, repo	rts, arti	th developing students' skills in writing and editing the variou cles, etc. The course covers editorial rules of the media cont ons and media topics in various templates and forms in Englis	ent in I			
MASC	420	Using Multimedia & Webcasting	2	2	3	MASC 320
areas and o they work	creating togethe	ts to the basics of designing for interactive multimedia. User the overall look and feel of a project will be covered. Emphar as a means of creating an effective interactive multimedia Multimedia Production lab.	asis wil	I be or	the vis	sual aspects of individual elements and how
MASC	430	TV Production	2	2	3	MASC 204
placed on t	theory a	e basic aspects of technical and production techniques of tele and use of television equipment, direction, lighting, television In addition to the student-produced and directed assignment	graph	ics, sc	ripting,	basic engineering, distribution systems, and
MASC	432	TV Production I	2	2	3	MASC 355
to develop concepts si triangle, as	the grouch as to well as oduce a	roduction tools, as well as providing the basics of video shoo und plans for directing solutions in locations by practicing his the sizes, basic shots, derived clips, the relationship between a camera movements and the procedures used in the art work joint project with a number of students, which will polish as ork.	s/her s the ar ks. At	kills in ngle an the en	a short d the so d of the	group project, emphasizing technical and crafubject based on the angles of the base of the course, the student will be able to lead a
MASC	438	Radio & TV Presenting	3	0	3	MASC 432
student als and some l casting me	o introdo basic la thods, f	the announcer, including the art of dealing with the camera, luced to presenting news, talk shows and interviews. Special nguage skills for broadcasters. Training in this regard deals was types and factors of its success, in addition to specificities of and production skills required in accordance with professional	attent vith par both ra	ion wil use ma adio ar	ll be pai arks and nd televi	d to voice, speech, pronunciation, discourse I their purposes, methods of sentence stress, ision. The course will provide students with the
MASC	439	Presenting and Persuasion Skills	1	4	3	MASC 206 AND ETHC 397
used in the and harnes	media s the c	uces the foundations and skills of recitation and phonemes. Stockermine how recitation proficiency relates to listeners' was been proposed to the vocal apparatus with body language to pen skills and techniques, and how to utilize the different layer.	willingn suade	ess to viewe	be pers	suaded. Students will also learn how to deliver steners. Additionally, it enables them to
MASC	440	Mass Media & Society	3	0	3	MASC 202
		nd analysis of the mass media and the forces that influence t uence on our society. Issues and case studies vary with the				
MASC		Media Editing in English II	2	2	3	MASC 344
background	ds. It th	t developing a high level of verbal and written communication erefore trains students on how to conduct as well as write juries, structures and writing techniques used in features, investigations.	ournalis	stic inte	erviews	in English. The course also introduces
MASC	450	Graphic & Internet Site Design	2	2	3	MASC 420
		es the various aspects of graphic communication and provident nave hands-on experience using software in an electronic de				
MASC	455	TV Production II	2	2	3	MASC 328 AND MASC 432
technical p of craftsma photograph visions tha	rocesse anship a ny and d t qualify	o provide the student with the technical and professional knows in all stages and requirements according to the requirement technology through which he/she can find the solution are diting processes. In addition, the course enables the student him/her to deal with technicians and artists on various photometric through the course enables the applied the course enables.	nts of the nd over to de tograph	he pho rcome velop ny sites	otograph the tech his/her s. The c	ny sites. It also provides him/her with the skills nnical problems encountered in the creative abilities and artistic and personal
MASC	456	TV and Radio Editing	1	4	3	MASC 342 OR ( MASC 328 AND MASC 432 )
image, colo	or theor	o introduce the concept of video and audio editing and its m y, the use of effects and transitions between audio and videomedia sites.				

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
	Mass Communication & Public Relations							
MASC	460	Seminar on Communications Research	3	0	3	MASC 360		
		sion of literature in mass communication with emphasis on red d suggestions for future research are major topics.	ecent r	esearc	h findin	gs. The questions asked, methods used,		
MASC	464	Documentary Films	2	2	3	MASC 328 AND MASC 355		
or subject selecting a cinematic Subcatego identificat expression course, th construction and receivasselections.	in chang and arrai treatmen ories incluion of the n strategue studen onal unit	ices a definition of the concept of the documentary film, its peable reality, the treatment of factual material, determining aging the required material, presenting the film-maker's vision it.  Ide: types of content, types of treatment, types of construct a easthetics of the experimental trends in the short film (mo es, expression strategies through commentary and dialogue to learns to produce television programs, starting with collect and linking it with premade footage to create its own contending in the use of external (outside the studio) video cameras udent submits a project at the end of the course.	the mon of the tivism, and extended the ting new ext. The	ethod ne cont poetic alysis o express ws fror stude	of prese tent to to docume of Rober sion stra m the ar nt also l	enting the subject, building, organizing, he target audience, and preparing the entaries, determining the work plan, t Flaherty and Grierson), film format and visual stegies through symbolic montage. In this entire and the Internet, using it in as a unified learns skills of changeable reality photography		
MASC	467	Specialized Journalism	2	2	3	MASC 311		
and patter writing an child jourr of the cou interviews formulatio	rns of sp ad covera nalism. T arse instr s, their ty on and bu	s on the study of the methods, principles and language of specialized newspapers and magazines. The student studies, in ge in a variety of areas including political, sports, economics he student submits press coverage and written assignments actor. Further, the course introduces rules, skills and conditipes and methods, techniques and skills of interviewing, type illding question traps. The course is based on practical training press texts.	n a praction a practical formula in a practic	ctical ways of the second to a	vay, the ntific, en selected eparations, type	basics and skills of specialized journalistic nvironmental, cultural, artistic, women and number of these areas under the supervision on of press investigations, reports and s of questions and techniques of question		
MASC	468	Specialized Journalism	3	0	3	MASC 309		
child jourr of the cou interviews formulatio	nalism. T Irse instr s, their ty on and bu	ge in a variety of areas including: political, sports, economic he student submits press coverage and written assignments actor. Further, the course introduces rules, skills and conditi- pes and methods, techniques and skills of interviewing, type illding question traps. The course is based on practical traini- press texts.	related ons for es of in	the protection to the protection to the	selected reparations, type	number of these areas under the supervision on of press investigations, reports and s of questions and techniques of question		
MASC	474	Social Media	2	2	3	MASC 310		
phenomer communit	non, soci	with the concept of social networks, their characteristics, the all networking, the most prominent of these networks, the id use in media campaigns, the mechanisms in which they influes in the field of public relations. The course offers pract	lentifica luence	ntion of public	f their p opinion	ositive and negative impacts on individuals and , the skills of building strategic plans in social		
MASC	499	Project in MASC	0	6	3	PMRM 498 AND ETHC 397		
		viset source in Mass Communication aims at providing the d				· · · · · · · · · · · · · · · · · · ·		
learning. I originality the studer experience The gradu	It provide , plannin nt to dev es. Jation pro	reflects the various knowledge and skills acquired by during as an opportunity to obtain practical experience in his/her field and implementation skills, leadership and organizational called his/her intellectual and practical capabilities in the serviciplect is conducted in through group or individual work and the	the steld of spapilities of the state of the	udy of pecializies, tin ne com direct	the prozation as ne and r nmunity	s well demonstrate independence and resource management. The course also allows through media and communication		
learning. I priginality the studer experience The gradu MCPR	It provide , plannin nt to dev es. Jation pro	reflects the various knowledge and skills acquired by during an opportunity to obtain practical experience in his/her field and implementation skills, leadership and organizational called his/her intellectual and practical capabilities in the service of seconducted in through group or individual work and the Introduction to Communication	the steld of spapabilities of the hrough	udy of pecializies, tin ne com direct 0	the prozation as ne and remunity guidance	gram, based mainly on independent self- s well demonstrate independence and resource management. The course also allows through media and communication the from the project supervisor.		
earning. I originality the studer experience The gradu MCPR This cours the eleme concept of contempo	It provide , plannin nt to dev es. uation pro 101 se providents of th f commu	reflects the various knowledge and skills acquired by during as an opportunity to obtain practical experience in his/her field and implementation skills, leadership and organizational called his/her intellectual and practical capabilities in the serviciplect is conducted in through group or individual work and the	y the steld of spapabilities of the hrough 3 of massication pastic knoctions	udy of pecialization of the communication of the co	the prozation as ne and remunity guidance guidance municati Il as its of	gram, based mainly on independent self- s well demonstrate independence and resource management. The course also allows through media and communication  the from the project supervisor.  on and public relations. It includes a study of different patterns. The course presents the t the emergence and development of		
learning. I originality the studer experience The gradu MCPR This cours the eleme concept of contempo	It provide , plannin nt to dev es. uation pro 101 se providents of th f commu	reflects the various knowledge and skills acquired by during an opportunity to obtain practical experience in his/her field and implementation skills, leadership and organizational case lop his/her intellectual and practical capabilities in the service of the s	y the steld of spapabilities of the hrough 3 of massication pastic knoctions	udy of pecialization of the communication of the co	the prozation as ne and remunity guidance guidance municati Il as its of	gram, based mainly on independent self- s well demonstrate independence and resource management. The course also allows through media and communication  the from the project supervisor.  on and public relations. It includes a study of different patterns. The course presents the t the emergence and development of		
learning. I originality the studer experience The gradu MCPR This cours the eleme concept or contempo considered MCPR The cours audio-visus selection, writing for	It provided, planning to developed to develo	reflects the various knowledge and skills acquired by during an opportunity to obtain practical experience in his/her field and implementation skills, leadership and organizational calcillation by the intellectual and practical capabilities in the service of the conducted in through group or individual work and the introduction to Communication are students with the necessary basic knowledge in the field are communication process, the means and forms of communication and its various influences, in addition to providing be in the factors influencing it and the identification of the fun in essential introduction to the study of media and public relations.	y the steld of spapabilities of the hrough 3 of massication pastic knactions ations. 2 at skills reliation of the skills relia	direct  o  o  o  o  o  o  o  o  o  o  o  o  o	guidance and remaining and rem	gram, based mainly on independent self- s well demonstrate independence and resource management. The course also allows through media and communication  the from the project supervisor.  on and public relations. It includes a study of different patterns. The course presents the the emergence and development of mass media in society. This course is  MCPR 101  ver and write the news for the various print, entific concept of the news and methods of methods of drafting news, news language,		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Mass Communication & F	Public	Relati	ons		
designs, ir students v design pro elements of self-initiato	n additio with the ograms s of good ed creat	o identify the most important elements and principles in graph in the foundations of graphic design used in the field of medi skills of editing pictures, lines, colors, shapes, texts and draw such as Adobe Photoshop, Adobe InDesign and Adobe Premi design by strengthening the student's ability to be creative a sivity in expressing his/her ideas through the preparation of a challenges with high efficiency by employing different tools	ia, both vings ther and and inno variety	n theore nrough others ovative y of de	etical ar training to reac . The co signs th	nd applied. The course aims to provide g on the methods of dealing with graphic h innovative artistic designs providing ourse also encourages and promotes student's	
MCPR	208	Digital Photography	2	2	3	ITCS 101	
focusing o	n the se	pplied introduction to the arts of photography, within the fran ttings and techniques in the camera where he recognizes (e dition to editing images by Photoshop in order to develop his	xposur	e triang	gle - wh	ite balance - focal length - installation base	
MCPR	211	Media Graphics	1	4	3	ITCS 101	
designs, ir students v design pro elements of self-initiator	n additio with the ograms s of good ed creat	to identify the most important elements and principles in graph to the foundations of graphic design used in the field of m skills of editing pictures, lines, colors, shapes, texts and draw such as Adobe Photoshop, Adobe InDesign and Adobe Premidesign by strengthening the student's ability to be creative a livity in expressing his/her ideas through the preparation of a challenges with high efficiency by employing different tools	edia, b vings ther and and inno variety	oth the nrough others ovative y of de	eoretical training to reac . The co signs th	and applied. The course aims to provide g on the methods of dealing with graphic h innovative artistic designs providing ourse also encourages and promotes student's	
MCPR	232	Theories of Mass Communication	3	0	3	MCPR 101	
presentation active aud enabling s	on and s lience, ir students	es students with a scientific background of the scientific theostudy of some theories of communication. It addresses the that the study of some theories of communication in the explain the model to keep up with the latest communication innovations through the communication in the study of theories, and how to benefit from the application of theories.	neories nechani gh lear	related ism of ning at	d to the tradition out mo	impact of communication, the concept of the nal and modern media. The course also aims at dern communication techniques, identifying &	
MCPR	242	News Reporting & Writing	3	0	3	MCPR 101	
The course focuses on providing the students with the knowledge and practical skills required to cover and write the news for the various print, audio-visual and digital media. The course provides knowledge and practical skills related to the scientific concept of the news and methods of selection, collection and coverage of news, dealing with news sources, verification of information, methods of drafting news, news language, writing forms, rules for preparing and implementing news reports, and ethics of writing and publishing news. During the course, the student will cover and write news in different forms, formulas and media formats.							
MCPR	243	News Reporting & Writing	2	2	3	MCPR 101	
audio-visu selection, writing for	The course focuses on providing the students with the knowledge and practical skills required to cover and write the news for the various print, audio-visual and digital media. The course provides knowledge and practical skills related to the scientific concept of the news and methods of selection, collection and coverage of news, dealing with news sources, verification of information, methods of drafting news, news language, writing forms, rules for preparing and implementing news reports, and ethics of writing and publishing news. During the course, the student will cover and write news in different forms, formulas and media formats.						
MCPR	300	Media Design and Layout	2	2	3	MCPR 211	
theories, a	and visua	o provide students with the skills of both print and digital me al and aesthetic variables that govern it. Students will learn a n. The course also familiarizes students with the most popula	about t	he typo	graphic	and graphic elements and how to utilize them	
MCPR	360	Communication Research Methods	3	0	3	MASC 101 AND STAT 101	
		entific and research methods for mass media and public rela studies, field surveys and experimental design.	itions:	historic	al analy	rsis, case studies, content analysis, readership	
MPRM	498	Research Methods in Mass Communication & Public Relations	3	0	3	MCPR 360 AND Completion of at least 66 credits	
with the si research, relations.	kills rela preparin It deals	o introduce students to scientific research and its importance ted to scientific research, such as the use of library and refer g a research plan and identifying the types of research and in with the mechanism of formulating hypotheses and scientific e results of scientific research.	rences, method	desigr Is used	ning scie	entific tools for collecting data in media ntific research in the field of Media and public	
PMRM	498	Research Methods in Mass Communication & Public Relations	2	2	3	STAT 101 AND MCPR 232 AND Completion of at least 90 credits	
with the si research,	kills rela preparin	o introduce students to scientific research and its importance ted to scientific research, such as the use of library and refe g a research plan and identifying the types of research and a with the mechanism of formulating hypotheses and scientific	rences, method	desigr Is used	ning scie	entific tools for collecting data in media ntific research in the field of Media and public	

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skills to present the results of scientific research.

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Mass Communication & P	Public	Relat	ions	
PREL	101	Introduction to Public Relations	3	0	3	
importance publicity to	e of audi ools like n channe	es and responsibilities of the public relations professional in ience research in public relations program planning, the diffe press release and press kits to reach targeted audiences. It is for publicity. The course also emphasizes the importance of	erence explore	of pub es the	lic relati use of tl	ons from advertising, and the use of traditional ne internet to reach key stakeholders and as a
PREL	121	Introduction to Public Relations & Advertising	3	0	3	
public related conducting promotion public relations.	tions in y public s used by tions and	ts the basic concepts related to the public relations discipline various institutions, both governmental and private. It also e surveys and identifying the difference between public relation public relations, including brochures, flyers and other adverd advertising for organizations. The course also emphasizes	examine ns and tising r the imp	es the other materia portan	importa marketi als, as w ce of the	nce of planning of public relations programs, ng activities, such as advertising and vell as the use of the Internet in the field of e ethical component of the practice of public
PREL	220	Public Opinion	3	0	3	MASC 101
Public opin attitudinal	ion form change	nation, the basic elements involved, media role, its role in de are the core of this course.	emocra	tic soc	ieties, a	nd the social role of communication in
PREL	240	Advertising	3	0	3	MAKT 201
advertising	practice	ising including its history, functions, theories, ethics, and relates in agencies and organizations, including media analysis, be and relationships.				
PREL	267	PR & Advertising Campaigns	3	0	3	PREL 121
performane theoretical advertising	ce of pu foundat campai	dents will learn about the concept of public relations and adviblic relations functions in different institutions. This course a tions, scientific steps, and planning and analytical skills necesigns, all through successive steps of planning the campaign fation of its results.	lso pro ssary to	vides : o deve	students lop, plai	s with the opportunity to learn the concepts, n public relations campaigns and successful
PREL		PR & Advertising Campaigns	2	2	3	PREL 121
performane theoretical advertising	ce of pu foundat campai	dents will learn about the concept of public relations and adviblic relations functions in different institutions. This course a tions, scientific steps, and planning and analytical skills necestigns, all through successive steps of planning the campaign fation of its results.	lso pro ssary to	vides : o deve	students lop, plai	s with the opportunity to learn the concepts, n public relations campaigns and successful
PREL	301	International Communication	3	0	3	
explain the of commur relations).	e phenor nication This cou	o introduce the concept of the contemporary global media symena of communication and international media, as well as u (international news agencies, international press, internationarse seeks to deepen knowledge of the trends, balances and dvertising industry.	underst nal radi	tanding o, inte	g and re ernationa	alizing the role played by international means
PREL	302	Writing for Public Relations	2	2	3	PREL 268
writing lett announcer	ers, mei nent. Th	with the concept of writing styles for public relations, writing mos, and reports, writing speeches and writing for pamphlet ne course also familiarizes the student with the patterns and ssful public relations writing.	s and t	flyers,	writing	for interactive media and public relations
PREL	320	Organizational Communication & Consumer Behavior	3	0	3	MAKT 201
opportuniti acceptance	ies in su e. Comm	es how to enable corporations to use the tools of communication areas as employee motivation, customer loyalty, sharehol nunication management between organizations and their emplicial attention. Studying consumer behavior is a major issue.	lder un	dersta	nding, r	new media relationships and community
PREL	340	Integrated Marketing Communication	3	0	3	PREL 268 AND MAKT 201
the market planning. T planning, t	ting com The cour the facto	Idents learn about the concept of integrated marketing communication process, levels of marketing communication, marse also deals with the elements to be analyzed in planning nois influencing the selection of marketing communication mix mpaign components, and the role of the Internet in marketing	rketing narketi k, comr	mix e ng cor nunica	elements nmunica ation rele	, marketing communication strategy and ations, marketing communication budget
PREL	350	The Practice of Public Relations	3	0	3	PREL 101
theoretical and extern	foundat al public	gned to introduce students to the contemporary practice of pations of contemporary practice of public relations. Within this cs, descriptions of core public relations processes, and the to ent is introduced to corporate image creation and crisis mana	frame ols of	work, public	topics c	overed include: the identification of internal

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Mass Communication & F	Public	Relati	ons	
PREL	365	Media Production for Public Relations	2	2	3	PREL 350
brochures,	pamphl	the basic media techniques in print and broadcast production ets, and films to enhance the organization's image. This coumail, to promote the organization image and foster its relation	ırse inc	ludes	also the	s. It deals with production of documentaries, use of Web site, and online media relations
PREL	375	Specialized Public Relations	3	0	3	PREL 101
Public Relausers and	ations pe special r	s crisis and identifies its communication dimension, and focurspective. This course covers also the practice of public relateds, the use and application of public relations in business government and citizens.	tions in	vario	us fields	and specific organizations. It looks at special
PREL	412	Integrated Marketing Communication	3	0	3	MAKT 201
the marked planning. The planning, the planning, the planning, the planning are the planning are the planning are the planning.	ting com The cour the facto	dents learn about the concept of integrated marketing comin munication process, levels of marketing communication, mase also deals with the elements to be analyzed in planning resinfluencing the selection of marketing communication minupaign components, and the role of the Internet in marketing	nrketing marketi k, comr	mix e ng con nunica	lements nmunica tion rele	, marketing communication strategy and ations, marketing communication budget
PREL	422	Public Opinion & its Measurement	3	0	3	MCPR 232 AND STAT 101
field of me societies, t the role pla	easuring the study ayed by	study the phenomenon of public opinion as a social and co and surveying public opinion. The course presents the conce of factors influencing its formation, and the role of tradition public opinion in societies, as well as the scientific methods, and statistical techniques employed in this regard.	epts of nal and	public mode	opinion rn medi	, its different types, its development in modern a in forming public opinion. It also deals with
PREL	439	Strategic Communication in Public Relations	3	0	3	PREL 268
the public course also and Hunt i strategic o	and acti <sup>o</sup> o deals v models a ommuni	with the principles of strategic communication. It also tackles wating its role in various forms such as advertising, public re with theories and models that practice strategic communicati and other theories in public relations, as well as various scho cation in public relations and media, and draw strategies and ublic relations.	lations, ion in p ols of p	directoublic roublic i	: market elations elations	ring and e-marketing of goods and ideas. The (including 'Broome and Dozier models, Grunigs). Students analyze the relationship between
PREL	440	International Communication	3	0	3	PREL 350
This is mea		esent an overview of world communication systems. Topics	include	e: new	sgatheri	ing agencies, news and information flow, and
PREL	447	Media Production for PR	2	2	3	MCPR 206 AND PREL 485 AND MASC 355
according audio-visua technical a inside page establishm	to the ta al mater and scien es and a aent new	preparing the student for the process of the financial, literarget audience with a focus on the methods, components an ials. This course also aims at providing the necessary skills in tific bases for directing and producing publications, typogral dvertisements in public relations publications. The course ail sletters and the magazines, the production of brochures and	d techr n the fi phical p ms to d d annua	nical st eld of produc design al repo	ages for public re ing imag and pro rts.	the production of various print media and elations publications. The course deals with the ges and titles, producing of the front page, duce advanced printed forms Such as
PREL	450	Mass Media & Society	3	0	3	MASC 202
PREL	460	Special Events & Protocol	3	0	3	PREL 350
In today's designed t	o help c	mmunication and public relations activities have become es ommunication and public relations students participate as acapplied especially when politicians are involved.				establish mutual understanding. This course is
PREL	464	Protocol & Event Management	2	2	3	MAGT 121 AND PREL 340
communic	ative ski	providing students with the knowledge and skills to prepare Is (audio and oral), learn the code of conduct during events slations activities that are followed in special occasions.				
PREL	475	Advertising Copy Writing & Design	2	2	3	PREL 340 AND MCPR 206
principles a The course	and skills e also fo	be build, develop and refine the skills of editing, design and p s of advertising innovation, aesthetic values and creativity in cuses on the skills of editing and design of brand and advert ge, print design, editing and design of radio and television ac	the ad	lvertisi go, ed	ng busir liting an	ness, whether print, audio, visual or digital. d writing of headlines, editing of the

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
•		Mass Communication & F	Public	Relati	ons	
PREL	476	Public Relations Management	3	0	3	MAGT 121 AND PREL 340
elations deponstitutions. In the field of the organization the factors and the factors.	partme The str of publi ation, it ors infl al strue	student learns about the public relations strategy as an adminishment in the various institutions, the modern methods of managudent also examines the concept of leadership, its objective c relations. It deals with the planning process in this field, it s steps, its benefits and its elements, & public relations activated in the selection of the appropriate organizational structure and its models. The course finally highlights the control of the selection of the selection of the appropriate organizational structure and its models. The course finally highlights the control of the selection of the	ging the case impossible. It is a second to the case of the case o	em and course rtance It also s he stag	l its role focuses and its sheds lig ges of p	in shaping the mental image of the on the elements of the administrative process various stages, and then tackles the aspect of ght on the principles and types of organization reparation and organization of the
PREL	477	Crisis Communications	3	0	3	PREL 301 AND PREL 302
In this cours role of public	c relati	student gets introduced to the concept of crisis managemer ons management in solving them according to strategies an to studying ways to negotiate in crises.				t, dimensions, characteristics, types and the
PREL	484	Digital Public Relations	2	2	3	ITMS 205 AND PREL 268
model of ele- communication the content the communication PREL This course of writing letter	ectronic ion stra nt prov nication 485 deals v	the possibilities of the Internet to facilitate their communicate dialogue in communication with their target audiences and ategies followed by public relations on the Internet, the quarided, the communication techniques used, the most important practices used in these sites.  Writing for PR  with the concept of writing styles for public relations, writing mos and reports, writing speeches and writing for pamphlets e course also familiarizes the student with the patterns and	the us lity of tant ele 2 press s and f	e of techne tool ments and race lyers, v	chnolog Is used, of their 3 dio new writing f	ies Interactive communication methods, the promotion methods followed, the features design, the nature of the theoretical model & PREL 121 AND MCPR 243 s releases, public service announcements, or interactive media and public relations
		sful public relations writing.	1011115	or med	ia illess	ages used by public relations and the
PREL		Project in Public Relations  ject course in Public Relations aims at providing the student	0	6	3	PMRM 498 AND ETHC 397
he student texperiences.	to deve	g and implementation skills, leadership and organizational calop his/her intellectual and practical capabilities in the serving proup or individual work and the serving the conducted in through group or individual work and the serving proup o	ce of t	he com direct	munity	through media and communication
MATIL	050			1	0	
elevant mat	themat	Orientation Mathematics  rogramme that builds on and strengthens basic mathematic ics for business, arts and social science students. The cours netry, polynomials, indices, logarithms, functions and matric	e cove			
MATH	052	Mathematics	6	0	0	
understandir pasic topics i	ng and in alge	gned as comprehensive program that builds on and strength handling relevant mathematics for science, business, arts, s bra equations, inequalities, functions and graphs, polynomia	social s	ciences	s, IT an s, and r	d physiotherapy students. The course covers
MATH	053	Basic Mathematics	3	0	0	www.hom.ash.co
		o numbers, equations, and functions. Students will learn ho tions. Students will also learn about exponential and logarith				
MATH	055	Preparatory Mathematics	6	0	0	
elevant mat	themat	rogramme that builds on and strengthens basic mathematic ics for science, IT and pre-medical students. The course covers is and an introduction to sequences and series.				
MATH	101	Calculus I	3	0	3	MATH 050 OR MATH 052 OR MATH 053 OR MATH 055
lifferentiatio lifferentiatio his course. <i>i</i>	on of al on. App	irement for the BSc program in Engineering, IT, Multimedia gebraic and transcendental functions with different rules, w dications of differentiation such as extrema (maxima and mi ments of various problems are handed to the students to so	hich in nima),	volve n optimi:	nultiplic zation,	ation, division, chain rules and implicit and mean value theorem are also covered in for the exams.
MATH	102	Calculus II	3	0	3	MATH 101
emphasis on	integr	irement for the BSc program in Engineering, IT, Multimedia ration methods and techniques followed by further integration coordinates are all covered in this course. Assignments	on and	applica	itions. 7	aylor and McLaurin theorems, power series,

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exam.

learn how to write graphically), absolinow to determine operations with rand exams cover MATH 104 is a calculus cour media and integration for but may be also integrated of the following services and integrated of the following services and math math 221 is an integrated of the following services and appearance of the following services, special functions of a compatible services expansion. Phys 101 is a university recome and two dimand periodic motions of a compatible services expansion.	y mathematical analysis for business, economics, life and socice and solve systems of linear equations using Gauss eliminatical compound interest, present and future value, and annuities matrices to solve linear systems. The students are assigned as all material.  Mathematics II  These designed for students studying business, economics, and or design students also take this course. This course involves legebraic functions, as well as exponential and logarithmic functions are related problems such as marginal costs and total cost.  Discrete Mathematics  In to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with stoolean algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multim. The course emphasis will be on topics such as vectors, particular, actions. It covers classification, methods and techniques of solutilations with constant coefficients: non-homogeneous and homogeneous and homogeneous and inner products.  Linear Algebra  introduction to Linear Algebra. It covers linear systems, matrid norms and inner products.  Linear Algebra and Complex Analysis  combination of two different courses, Linear Algebra and Compolications. Linear Algebra covers vectors, systems of linear equitions analytic functions such as linear fractional transformations, mplex variable.	3 al sciencon, qual and extensions. It is al derived and expressions. It is a sedia. Tall derived and expressions. It is a sedia. Tall derived and expressions. It is a sedia. It is a sed	oces as adric exponent will be ents to ocusiness and diffict also rell as oceanics as I oceanics as	quations tital and able to solve to sol	s, and linear inequalities (analytically and di logarithmic functions. They will also learn develop a matrix, an inverse matrix and using o prepare them for the exams. Assignments  MATH 103  di programs. Besides business students, massition and integration of variety of functions, is the application of differentiation and narginal revenue and revenue.  MATH 101  Study of all aspects of computer science and ets, mathematical proof, functions, algebraic  MATH 102  Il build on the previous two calculus courses, le integrations, ordinary differential and Laplace and separable types, linear second- and of power series and Laplace transform  MATH 101  Ces, linear transformations, eigenvalues and  MATH 101  curses focus on the development of abstract terminants, vector spaces, eigenvectors,
is an introductory learn how to write graphically), absolute for determine operations with rand exams cover MATH 104 is a calculus cour media and interios such as simple al integration for but MATH 201 is an introduction engineering than structures and Bot MATH 202 is a university reconcept and integrated of differential equath higher-order equanction solute for a concept and appeigenvectors and properties, special functions of a concept and appeigenvalues, and properties, special functions of a concept functions of a concept and appeigenvalues, and properties, special functions of a concept function	y mathematical analysis for business, economics, life and socice and solve systems of linear equations using Gauss eliminatical compound interest, present and future value, and annuities matrices to solve linear systems. The students are assigned as all material.  Mathematics II  These designed for students studying business, economics, and or design students also take this course. This course involves legebraic functions, as well as exponential and logarithmic functions are related problems such as marginal costs and total cost in to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with stoolean algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multim. The course emphasis will be on topics such as vectors, particular, it is covers classification, methods and techniques of solutiations. It covers classification, methods and techniques of solutiations with constant coefficients: non-homogeneous and homogeneous and homogeneous of differential equations are also considered.  Linear Algebra  introduction to Linear Algebra. It covers linear systems, matrid norms and inner products.  Linear Algebra and Complex Analysis  combination of two different courses, Linear Algebra and Complex analytic functions such as linear fractional transformations, mplex variable.	al scienon, quasi and exitons. I sedia. Tal deriv 3 dexpresions. Irogenec	ces as deric exponent will be ents to our of this country of the c	well as quations tital and able to solve to solv	MATH 055  interior design and mass media. Students will so, and linear inequalities (analytically and dogarithmic functions. They will also learn develop a matrix, an inverse matrix and using oprepare them for the exams. Assignments  MATH 103  diprograms. Besides business students, mass atton and integration of variety of functions, is the application of differentiation and marginal revenue and revenue.  MATH 101  Intudy of all aspects of computer science and ets, mathematical proof, functions, algebraic  MATH 102  Il build on the previous two calculus courses, le integrations, ordinary differential and Laplace  MATH 102  In grand technology problems in terms of exact and separable types, linear second- and of power series and Laplace transform  MATH 101  Ces, linear transformations, eigenvalues and  MATH 101  Curses focus on the development of abstract terminants, vector spaces, eigenvectors,
learn how to writgraphically), absolow to determine operations with rand exams cover MATH 104 is a calculus cour media and interisuch as simple al integration for but MATH 201 is an introduction engineering than structures and Boundard MATH 202 is a university recolculus I and II. transforms.  MATH 205 is an integrated of differential equath higher-order equath higher-order equath methods. Some a MATH 221 is an integrated of differential equath higher-order equath methods. Some a MATH 221 is an integrated of differential equath higher-order equath methods. Some a MATH 221 is an integrated concepts and appeigenvectors and MATH 311 is an integrated concepts and appeigenvectors and math appeigenvalues, and properties, special functions of a commath and properties, shyperbolic functions of a commath and properties of a commath and properties of the properties of the properties of the properties of the properties of	the and solve systems of linear equations using Gauss eliminational values, functions, composite functions, inverse functions in compound interest, present and future value, and annuities matrices to solve linear systems. The students are assigned as all material.  Mathematics II  The designed for students studying business, economics, and or design students also take this course. This course involves legebraic functions, as well as exponential and logarithmic functions are lated problems such as marginal costs and total cost in to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with stopolean algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multim. The course emphasis will be on topics such as vectors, particular to course that permits the students to learn how to formulate and consistency in the course of solutiations with constant coefficients: non-homogeneous and home applications of differential equations are also considered.  Linear Algebra  introduction to Linear Algebra. It covers linear systems, matricular norms and inner products.  Linear Algebra and Complex Analysis  combination of two different courses, Linear Algebra and Complex analytic functions such as linear fractional transformations, multiple variable.	on, quae and ex They visignment and ex Signment and ex Signmen	ousiness and difficult also rell as possible constitutions on the constitution of the	quations tital and able to solve to sol	s, and linear inequalities (analytically and di logarithmic functions. They will also learn develop a matrix, an inverse matrix and using o prepare them for the exams. Assignments  MATH 103  di programs. Besides business students, massition and integration of variety of functions, is the application of differentiation and narginal revenue and revenue.  MATH 101  Study of all aspects of computer science and ets, mathematical proof, functions, algebraic  MATH 102  Il build on the previous two calculus courses, le integrations, ordinary differential and Laplace and separable types, linear second- and of power series and Laplace transform  MATH 101  Ces, linear transformations, eigenvalues and  MATH 101  curses focus on the development of abstract terminants, vector spaces, eigenvectors,
media and interior such as simple al integration for but MATH 201 is an introductior engineering than structures and Bo MATH 202 is a university reconcepts and integrated of differential equath higher-order equath higher-order equath higher-order equath higher-order equath higher-order equath math 221 is an integrated of differential equath higher-order equath hig	rese designed for students studying business, economics, and or design students also take this course. This course involves legebraic functions, as well as exponential and logarithmic functions related problems such as marginal costs and total cost Discrete Mathematics  In to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with stocolean algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multim The course emphasis will be on topics such as vectors, particular to provide that permits the students to learn how to formulate ancions. It covers classification, methods and techniques of solutations with constant coefficients: non-homogeneous and homapplications of differential equations are also considered.  Linear Algebra  Introduction to Linear Algebra. It covers linear systems, matrial norms and inner products.  Linear Algebra and Complex Analysis  Combination of two different courses, Linear Algebra and Compolications. Linear Algebra covers vectors, systems of linear equilipations and complex Analysis covers complex number systems analytic functions such as linear fractional transformations, mplex variable.	and reluch topics, as we are a second of the	usiness usiness usiness diffit also vell as p o evant to ics as l o chis cou atives, o ch	s-related ferential ferent	d programs. Besides business students, mass attion and integration of variety of functions, is the application of differentiation and marginal revenue and revenue.  MATH 101  Study of all aspects of computer science and ets, mathematical proof, functions, algebraic  MATH 102  I build on the previous two calculus courses, le integrations, ordinary differential and Laplace was and separable types, linear second- and of power series and Laplace transform  MATH 101  MATH 101  Ces, linear transformations, eigenvalues and  MATH 101  MATH 101  MATH 101  MATH 101  Ces, linear transformations, eigenvalues and  MATH 101  METH 101
media and interiosuch as simple al integration for but MATH 201 is an introduction engineering than structures and Both MATH 202 is a university reconcepts and integrated of the matter	or design students also take this course. This course involves legebraic functions, as well as exponential and logarithmic functions as related problems such as marginal costs and total cost discrete Mathematics  In to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with succeeding algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multing. The course emphasis will be on topics such as vectors, particular problems. It covers classification, methods and techniques of solutiations with constant coefficients: non-homogeneous and homogeneous and homogeneous and homogeneous and introduction to Linear Algebra. It covers linear systems, matricial information of two different courses, Linear Algebra and Complex Analysis  Incomplex Analysis  Incomplex Analysis covers complex number systems analytic functions such as linear fractional transformations, mplex variable.	imits, a tions. I is, as w 3 and relach topical derivers 3 dexpressions. Ir ogened 3 calgebra autions, stem, (croots, expressions, expr	end difficit also vell as possible of the country o	ferential ferent	MATH 102  In and technology problems in terms of exact and separable types, linear second- and of power series and Laplace transform  MATH 101  MATH 102  MATH 102  MATH 102  MATH 102  MATH 102  MATH 101  MATH 102  MATH 101  MATH 102  MATH 101
is an introduction engineering than structures and Bo MATH 202 is a university recalculus I and II. transforms.  MATH 205 is an integrated of differential equathigher-order equathigher-order equathigher-order sand MATH 221 is an ieigenvectors and MATH 223 MATH 223 is a concepts and appeigenvalues, and properties, special functions of a compation of	to mathematical ideas and concepts, which are more useful traditional continuous mathematics. The course deals with stoolean algebra.  Calculus III  quirement for the BSc program in Engineering, IT, and Multing. The course emphasis will be on topics such as vectors, particular particul	and relation topical and relation topical and a deriversity of the second secon	evant trics as I  O This coulatives,  O ess engincludedous one  O alysis. I , matri Cauchy	3 urse will multipl 3 gineerin d are: ees; use 3 tor space 3 Both co	MATH 101
engineering than structures and Bo MATH 202 is a university recalculus I and II transforms.  MATH 205 is an integrated of differential equathigher-order equivered equiversity is an iegenvectors and MATH 221 is an iegenvectors and MATH 223 is a concepts and appeigenvalues, and properties, special functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties, shyperbolic functions of a colom MATH 311 is Intractive properties.	traditional continuous mathematics. The course deals with spolean algebra.  Calculus III quirement for the BSc program in Engineering, IT, and Multing. The course emphasis will be on topics such as vectors, particular points. The course emphasis will be on topics such as vectors, particular points. It covers classification, methods and techniques of solutiations with constant coefficients: non-homogeneous and homogenications of differential equations are also considered.  Linear Algebra  Introduction to Linear Algebra. It covers linear systems, matricular norms and inner products.  Linear Algebra and Complex Analysis  Discription of two different courses, Linear Algebra and Compolications. Linear Algebra covers vectors, systems of linear equilipation of two differents courses, systems of linear equilipations. Complex Analysis covers complex number systems analytic functions such as linear fractional transformations, mplex variable.	3 dedia. Tal deriv 3 d expresions. Irrogenece 3 c algebra autions stem, (croots, expressions, expressions)	o this coulont on the	3 urse will multipl 3 gineerin d are: ees; use 3 tor space 3 Both co	MATH 102  I build on the previous two calculus courses, le integrations, ordinary differential and Laplace  MATH 102  If any to the previous two calculus courses, le integrations, ordinary differential and Laplace  MATH 102  If any to the previous two calculus courses, le integrations, ordinary differential and Laplace  MATH 101  If any to the previous two calculus courses, le integrations, le integrations of exact and separable types, linear second- and of power series and Laplace transform  MATH 101  If any to the previous two calculus courses, linear transformations, eigenvalues and le integrations of the development of abstract terminants, vector spaces, eigenvectors,
is a university rec Calculus I and II. transforms.  MATH 205 is an integrated of differential equat higher-order equ methods. Some a MATH 221 is an i eigenvectors and MATH 223 MATH 223 is a co concepts and appeigenvalues, and properties, specia functions of a col MATH 311 is Intr their properties, shyperbolic function Series expansion PHYS 101 is a university rec one and two dim and periodic mot	quirement for the BSc program in Engineering, IT, and Multing. The course emphasis will be on topics such as vectors, particular Differential Equations  course that permits the students to learn how to formulate ancions. It covers classification, methods and techniques of solutiations with constant coefficients: non-homogeneous and homogenications of differential equations are also considered.  Linear Algebra  introduction to Linear Algebra. It covers linear systems, matrial norms and inner products.  Linear Algebra and Complex Analysis  combination of two different courses, Linear Algebra and Compolications. Linear Algebra covers vectors, systems of linear equilipation diagonalization. Complex Analysis covers complex number systems analytic functions such as linear fractional transformations, mplex variable.	aedia. Tal deriv  3 dexpresions. Ir ogenece  3 calgebra  3 llex Anauations stem, (croots, ecots, ecots)	o catives,	urse will multipl  3 gineerin dare: ees; use  3 tor space  3 Both coces, det	I build on the previous two calculus courses, le integrations, ordinary differential and Laplace  MATH 102  g and technology problems in terms of exact and separable types, linear second- and of power series and Laplace transform  MATH 101  ces, linear transformations, eigenvalues and  MATH 101  murses focus on the development of abstract terminants, vector spaces, eigenvectors,
Calculus I and II. transforms.  MATH 205 is an integrated of differential equathigher-order equipmethods. Some a MATH 221 is an ieigenvectors and MATH 223 math 223 is a concepts and appeigenvalues, and properties, specifunctions of a commath 311 is Intractional math is Intractive properties, hyperbolic functions of PHYS 101 is a university recone and two diminand periodic motions.	Differential Equations course that permits the students to learn how to formulate antions. It covers classification, methods and techniques of solutations with constant coefficients: non-homogeneous and homogeneous of differential equations are also considered.  Linear Algebra introduction to Linear Algebra. It covers linear systems, matrid norms and inner products.  Linear Algebra and Complex Analysis combination of two different courses, Linear Algebra and Complications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy all analytic functions such as linear fractional transformations, mplex variable.	3 d expresions. Ir ogened 3 c algebrations, stem, croots, expressions,	o ess engocluded ous one o o o o o o o o o o o o o o o o o o	multipl  3 gineerin d are: e es; use  3 tor space  3 Both co ces, det	MATH 101
is an integrated of differential equat higher-order equipmethods. Some at MATH 221 is an ieigenvectors and MATH 223 is a concepts and appeigenvalues, and properties, specifunctions of a commath 311 MATH 311 is Intribulation from their properties, hyperbolic functions PHYS 101 is a university recone and two diminand periodic moternial equations.	course that permits the students to learn how to formulate ancions. It covers classification, methods and techniques of solutations with constant coefficients: non-homogeneous and homogeneous of differential equations are also considered.  Linear Algebra introduction to Linear Algebra. It covers linear systems, matril norms and inner products.  Linear Algebra and Complex Analysis ombination of two different courses, Linear Algebra and Complications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy al analytic functions such as linear fractional transformations, mplex variable.	d expresions. Irrogened	ess engicluded ous one of the original output	gineerin d are: e es; use 3 tor space 3 Both co ces, det	g and technology problems in terms of exact and separable types, linear second- and of power series and Laplace transform  MATH 101  ces, linear transformations, eigenvalues and  MATH 101  ourses focus on the development of abstract terminants, vector spaces, eigenvectors,
differential equathigher-order	cions. It covers classification, methods and techniques of solutiations with constant coefficients: non-homogeneous and homogeneous of differential equations are also considered.  Linear Algebra introduction to Linear Algebra. It covers linear systems, matrid norms and inner products.  Linear Algebra and Complex Analysis ombination of two different courses, Linear Algebra and Complications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy all analytic functions such as linear fractional transformations, mplex variable.	3 c algebilistics algorithms and algorithms are algorithms.	0  allysis. I auchy	d are: ees; use  3 tor space  3 Both coces, def	MATH 101
MATH 221 is an i eigenvectors and MATH 223 is a coconcepts and appeigenvalues, and properties, special functions of a colombath 311 is Intractive properties, shyperbolic functions of a colombath 311 is Intractive properties, shyperbolic functions of a colombath 311 is Intractive properties, shyperbolic functions expansion PHYS 101 is a university recone and two dimand periodic mot	introduction to Linear Algebra. It covers linear systems, matrial norms and inner products.  Linear Algebra and Complex Analysis  Discription of two different courses, Linear Algebra and Complications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy all analytic functions such as linear fractional transformations, mplex variable.	3 llex Ana uations stem, ( roots, e	o alysis. I matri	3 Both coces, det	MATH 101  wurses focus on the development of abstract terminants, vector spaces, eigenvectors,
eigenvectors and MATH 223 is a coconcepts and appeigenvalues, and properties, specifunctions of a commatter of	Inorms and inner products.  Linear Algebra and Complex Analysis ombination of two different courses, Linear Algebra and Complications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy al analytic functions such as linear fractional transformations, mplex variable.	3 lex Anauations stem, ( roots, (	0 alysis. I , matri Cauchy	3 Both co	MATH 101  urses focus on the development of abstract terminants, vector spaces, eigenvectors,
MATH 223 is a co- concepts and appeigenvalues, and properties, special functions of a con- MATH 311 is Intractive properties, shyperbolic functions PHYS 101  is a university recone and two dimand periodic motor concepts and two dimand periodic motor concepts and special periodic motor concepts and appearance periodic	ombination of two different courses, Linear Algebra and Comp plications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy al analytic functions such as linear fractional transformations, mplex variable.	lex Ana uations stem, ( roots, e	alysis. I , matri Cauchy	Both co ces, de	ourses focus on the development of abstract terminants, vector spaces, eigenvectors,
concepts and appeigenvalues, and properties, special functions of a colombat MATH 311 is Intractional functions of a colombat MATH 311 is a university recone and two dimand periodic motions of a colombat MATH 311 is Intractional functions of a colombat MATH 311 is Intractional func	plications. Linear Algebra covers vectors, systems of linear eq diagonalization. Complex Analysis covers complex number sy al analytic functions such as linear fractional transformations, mplex variable.	uations stem, ( roots, e	, matri Cauchy	ces, det	terminants, vector spaces, eigenvectors,
MATH 311 is Intr their properties, hyperbolic function Series expansion: PHYS 101 is a university recone and two dim and periodic mot	Compley Analysis		zxporic		
their properties, shyperbolic function Series expansion.  PHYS 101  is a university recone and two dimand periodic mot	Complex Analysis	3	0	3	MATH 102
is a university recone and two dim	roduction to Complex Analysis. This course covers complex nu special analytic functions such as linear fractional transformat ons of a complex variable. It also includes complex integrations.	ions, ro	ots, e	kponent	tial, logarithmic, and trigonometric and
one and two dim and periodic mot	General Physics I	3	0	3	MATH 050 OR MATH 052 OR MATH 053 OR MATH 055
5111/5	quirement for the BSc program in Engineering and Physiother ensions, Newton's laws of motion, work and energy, impulse ion.				
PHYS 102	Physics II	2	2	3	PHYS 101
laws, electric pot	duces principles of electricity and magnetism and circuits. To ential, capacitors, direct current circuits, Kirchhoff's rules, ma nce AC circuits, and RLC circuit. Students will apply these con	gnetic f	ield ar	nd flux,	ampere's law, induced emf, Lenz's law, mutual
PHYS 111	General Physics	3	0	3	
analysis as well a laws, electric pot	general physics, which is a university requirement for the BSc as calculus-based mathematics to introduce vectors in 1-D, 2- ential, capacitors, direct current circuits, Kirchhoff's rules, RC w, Faraday's and Lenz's laws, and driven AC current.	), and	3-D, el	ectrosta	atic forces and fields, Coulomb's and Gauss's
PHYS 121	G I DI : II	1	0	3	PHYS 101
electric potential,	General Physics II	3			
PHYS 131	quirement for the BSc program in Engineering. This course in, capacitors, direct current circuits, Kirchhoff's rule, magnetic AC circuits, and RLC circuits.	roduce			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Mathematical So	ciences	3			
analysis as laws, elect	s well as ric pote	general physics I, which is a university requirement for the calculus-based mathematics to introduce vectors in 1-D, 2-ntial, capacitors, direct current circuits, Kirchhoff's rules, RC Faraday's and Lenz's laws, and driven AC current.	D, and	3-D, e	lectrost	atic forces and fields, Coulomb's and Gauss's	
PHYS	321	Electromagnetic Theory	3	0	3	MATH 205 AND MATH 311	
magnetost them to so	tatics, el olving pr	with a review of vector calculus and coordinate transformat ectromagnetic induction and electromagnetic waves. Studer actical electromagnetic fields problems. Other concepts such d in this course.	ts gain	knowle	edge of	Maxwell's Equations and learn how to apply	
STAT	101	Introduction to Statistics	3	0	3	MATH 050 OR MATH 052 OR MATH 053 OR MATH 055	
random se	ts of da	ourse that begins by familiarizing the student with new cond ta. It covers descriptive statistics and leads on to frequency liscrete and continuous probability distributions, correlation	and its	distrib	ution, v		
STAT	201	Medical Statistics	3	0	3	STAT 101 AND PHTH 325	
encompas	sed in m	ication of elementary statistics to basic principles and metholedical statistics. The emphasis will be on the design and integrated with the main epidemiological content, and practical	erpretat	ion of	epidem	iological studies. Appropriate statistical	
STAT	202	Business Statistics	3	0	3	STAT 101	
linear regr	ession,	knowledge of statistical theory that is important for applicat thi square tests and analysis of variance. Special attention is ne course uses statistical software, SPSS and Minitab, for pro-	placed	on sui	rvey me	ethodology. An introduction to non-parametric	
STAT	302	Applied Probability	3	0	3	MATH 202	
random va	riables	lity notions such as random variables and probability distribend transformation. In addition, applications of probability to be basic single server queuing system M/M/1 are also discus	areas				
COLLEGE OF BUSINESS & FINANCE							
	Accounting & Economics						
ACCT	101	Accounting I	3	0	3		
	tries; ac	counting cycle; recording changes in financial position; ledge counting for merchandising operations; special journals and ent.					
ACCT	201	Accounting II	3	0	3	ACCT 101	
		tnerships and corporations: capital stock; dividends and retail position; cash flows, analysis and interpretation of financial					
ACCT	301	Managerial Accounting	3	0	3	ACCT 201	
		st behaviour and cost-volume-profit relationships; relevant in nces; management control systems and responsibility accou		ion and	d decisi	on making; the master budget; flexible	
ACCT		Intermediate Accounting I	3	0	3	ACCT 201	
underlying about an e adjustmen	An intensive study of financial accounting and reporting practices. Particular emphasis on the theoretical foundations, concepts and principles underlying financial statements with emphasis on assets and current liabilities and the process of preparing and presenting financial information about an entity for outside users. Topics vary but typically include: standard setting; the accounting cycle including data accumulation, adjustments and preparation of financial statements; and valuation with a focus on the recognition, measurement and disclosure of revenue, inventory and cost of sales, and plant assets.						
ACCT	312	Intermediate Accounting II	3	0	3	ACCT 311	
liabilities a financial ir measurem income tax	ind stock formation ent and kes, stock	f concepts and principles underlying financial statements wit cholders' equity. Particular emphasis is placed on the proces on about an entity for outside users. Topics vary but typicall disclosure of: equity investments, financing activities (bond- disclosure of: equity, specialized reporting problems and cash flo	s of pre y includ ed debt	paring e analy , lease	and projects	esenting ecognition, ions),	
ACCT		Intermediate Cost Accounting	3	0	3	ACCT 301	
environme	nt.	llocations, performance measurements, analysis of current of					
ACCT	321	Auditing	3	0	3	ACCT 201	
		diting; professional ethics; audit evidence and documentatio ples; inventories; fixed assets; current and long-term liabiliti					

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	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Accounting & Eco	onomic	cs		
ACCT	341	Accounting Systems	3	0	3	ACCT 301 OR ACCT 312
developme	ent life c	chnology/accounting information systems and their interface ycle to the engineering of accounting information systems. E ent and accounting systems development. Introduction to us	Emphas	sis on a	uditing	system security and integrity. Coverage of
ACCT	401	Accounting Theory	3	0	3	ACCT 312
	and re	ng; nature and uses of accounting information; the formulati porting; the accounting standards setting process; income a unting.				
ACCT	402	Contemporary Issues in Accounting	3	0	3	ACCT 312
		course with topics that can change from semester to semes ation accounting, market-value-based measurement metrics,				
ACCT	403	Advanced Accounting	3	0	3	ACCT 312
		come determination and equity accounting, and consolidated siness combinations, preparation of consolidated financial sta				
ACCT	404	International Accounting	3	0	3	ACCT 312
national ac	ccountin	ns major issues in international accounting, including historic g systems. Particular emphasis is placed on surveying accou unting for multi-national corporate operations including taxat	nting p			
ACCT	405	Accounting Information Systems	2	2	3	ACCT 301 OR ACCT 312
transactior database v advantage	n-cycle by which pr	ns; the development of accounting systems through systems based accounting information systems. Additionally, students ovide students with a greater understanding of how micro-computerized software over a manual process.	will wo	ork on er-base	account ed accou	ting systems-oriented spreadsheet and inting software is used and to demonstrate the
ACCT	411	Taxation	3	0	3	ACCT 201
course pro	vides th	o develop knowledge and skills relating to the tax system as se core knowledge of the underlying principles and major tec se economy. Additionally, this course will cover UK VAT in ali	hnical a	areas o	of taxati	on as they affect the activities of individuals,
ACCT	422	Advanced Audit and Assurance	3	0	3	ACCT 321
accountant	ts and ii	gned to provide an extension to auditing course (ACCT 321) nternal auditors in examining financial statements and suppo m Audit. Also it emphasizes ethical and legal aspects and cor	rting d	ata of	public li	sted companies. Special emphasis is given
ACCT	499	Project in Accounting	0	6	3	BFRM 498 AND ETHC 391
		approved project in accounting ordinarily involving (1) reseat g or (2) reporting on field-work in an accounting organization		a parti	cular	
ECON	101	Principles of Microeconomics	3	0	3	
pricing pol	icies of	uces microeconomic concepts and analysis: the study of supplifirms under different market structures such as perfect comp		, mond		
ECON	102	Principles of Macroeconomics	3	0	3	
		leterminants of aggregate economic activity, the effects of mades topics of inflation, unemployment, money and banking,				
		1				conomic acveropment
	201	Intermediate Microeconomic Theory	3	0	3	ECON 101
ECON Determination	tion of p	Intermediate Microeconomic Theory  prices and quantities in markets for goods and services. Theo  nontest of alternative market structures: perfect competition,		consu		ECON 101 naviour, cost structures, factor payments. Firm
ECON Determination	tion of p	orices and quantities in markets for goods and services. The		consu		ECON 101 naviour, cost structures, factor payments. Firm
ECON  Determinate behaviour  ECON  Roles of goffiscal and reconstructions	tion of p in the c 202 oods an monetal	prices and quantities in markets for goods and services. The contest of alternative market structures: perfect competition, Intermediate Macroeconomics Theory d markets and financial markets in the determination of nation policy. Alternate theories of income, output and price determination of the context	monop 3 onal inc	consu poly, ol 0 come a	igopoly 3 nd infla	ECON 101  naviour, cost structures, factor payments. Firm and monopsony.  ECON 102  tion; economic growth and business cycles;
ECON  Determinate behaviour  ECON  Roles of goffiscal and reconstructions	tion of p in the c 202 oods an monetal	prices and quantities in markets for goods and services. The contest of alternative market structures: perfect competition, Intermediate Macroeconomics Theory d markets and financial markets in the determination of nation policy. Alternate theories of income, output and price determination of the context	monop 3 onal inc	consu poly, ol 0 come a	igopoly 3 nd infla	ECON 101  naviour, cost structures, factor payments. Firm and monopsony.  ECON 102  tion; economic growth and business cycles;
employment ECON  Determinate behaviour  ECON  Roles of go fiscal and in macroecon  ECON  A general of considers is	tion of p in the c 202 cods and monetan nomic po 301 overview such div	prices and quantities in markets for goods and services. The contest of alternative market structures: perfect competition, Intermediate Macroeconomics Theory d markets and financial markets in the determination of nation policy. Alternate theories of income, output and price determines.	monop 3 onal incerminati 3 on the file orts, in	consupoly, ol 0 come a ion. Do	3 nd infla mestic  3 f of this ual prop	ECON 101  naviour, cost structures, factor payments. Firm and monopsony.  ECON 102  tion; economic growth and business cycles; and international constraints on  LAW 101 OR Completion of at least 66 credits  course. The second half of the course then erty rights, criminal law as applied to business

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
	Accounting & Economics								
ECON	303	International Economics	3	0	3	ECON 202			
internation	nal mone	and composition of trade between nations with further consetary markets and policies. Theory of causes and compositiade; economic integration and commercial policy. Financial	on of tra	de. To	pics inc	lude: comparative advantage; tariff and non-			
ECON	310	Islamic Economics	3	0	3	ECON 101 OR ECON 102 OR CULT 102			
the Sharial	This course introduces students to fundamental issues encountered in modern Islamic economics in both theory and practice. The teachings of the Shariah in both microeconomics and macroeconomics are explored in depth permitting students to comprehend the multifarious nature of islamic teaching across a wide spectrum of economic matters.								
ECON	321	Econometrics	3	0	3	STAT 202 AND ECON 202			
		and prediction with ordinary least squares (OLS) regression eteroscedasticity and serial correlation problems, dummy v							
ECON	322	Labor Economics	3	0	3	ECON 201			
An analysis	s of labo	or force participation, employment, wage determination, ec	onomic s	stability	, and ir	nvestment in human capital.			
ECON	324	Economic Development and Growth	3	0	3	ECON 202			
theoretical and open 6	l develo <sub>l</sub> econom	n theory and empirical analysis of economic development a oment models, problems of efficient resource allocation in a ic systems, the role of capital accumulation, and innovation mic analysis with a view to policy formulation.	a growin	g econ	omy, ba	alanced ? and unbalanced ? growth in closed			
ECON	410	Industrial Organization	3	0	3	ECON 201			
		native market structures focusing particularly on the impact business and society.	t of con	centrat	ion, ecc	onomies of scale, advertising and			
ECON	420	Public Finance	3	0	3	ECON 102 AND Completion of at least 90 credits			
This course provides a fundamental understanding of the financial management of governmental organizational units and enterprises through an analysis of revenues and expenditures at all levels of government. Special emphasis is placed on the effects of public finance on business finance and personal finance.									
ECON	421	Monetary and Financial Systems	3	0	3	BANK 302			
discusses t	the func	noices can strongly affect the development of the economic lamentals of monetary policy in the macroeconomic framev aspects of policy actions, evaluation of policies to influence	vork cha	racteriz	zing trai	nsition economies shedding light on domestic			
ECON	424	Engineering Economics	3	0	3	Completion of at least 90 credits			
is designed solving and rate of retu after tax a	d to offe d the ca urn, inci nalysis,	at providing the student with advanced concepts of engineer the students the tools needed for rigorous presentation of pacity to act with ethical and efficient professionalism. The remental analysis, future worth analysis, and payback perior replacement analysis, uncertainty, inflation, deflation, and project management professional in engineering fields.	of the effortion tools in the definition to the definition to the definition of the	ect of to troduce ionally,	the time ed include the cou	e value of money on engineering problem de present worth analysis, annual cash flow, urse also covers topics such as depreciation,			
ECON	499	Project in Economics	0	6	3	BFRM 498 AND ETHC 391			
		approved project in economics ordinarily involving (1) researganization.	arch on a	a partic	ular top	oic in economics or (2) reporting on field-work			
INTR	421	BSAF Internship	0	12	6	Completion of at least 90 credits			
INTR	423	BSEF Internship	0	12	6	Completion of at least 90 credits			
INTR	465	BSAF Internship	0	0	3	Completion of at least 90 credits			
an organiza	This course is taken as a substitute to one course (3 credits hours) from the program core elective courses. Students follow a training program in an organization related to their specializations in accounting or finance. The program aims to provide students with first-hand experience of the day-to-day functions, duties, and operations and to integrate what they have learnt in the classroom with the competencies required in the								
INTR	466	BSEF Internship	0	0	3	Completion of at least 90 credits			
This course is taken as a substitute to one course (3 credit hours) from the program core elective courses. Students follow a training program in organization related to their specializations of economics or finance. The program aims to provide students with first-hand experience of the day-to-day functions, duties, and operations and to integrate what they have learnt in the classroom with the competencies required in the									
workplace.	<u> </u>								
		Banking & Fi	nance						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Banking & Fin	ance			
portfolio o flows, and bank man	onstructi quantita agers sh	and microeconomics are applied to matters of importance to on, lending policies, liabilities management, bank capital strative models for bank management. Commercial bank mana ould look for in asset management and why; what market of ing economic and financial conditions.	ucture, gement	short- t is ana	run casi alyzed fr	n management, financial market rates and rom an internal viewpoint in terms of what
BANK	221	Bank Management I	3	0	3	ECON 102
		and microeconomics are applied to matters of importance to				
flows, and bank man	quantita agers sh	ion, lending policies, liabilities management, bank capital striative models for bank management. Commercial bank management and why; what market coing economic and financial conditions.	gement	t is ana	alyzed fr	om an internal viewpoint in terms of what
BANK	302	Money & Banking	3	0	3	ECON 102
instrument interplay b	ts, the ru etween	e course are Money, banking, financial institutions, monetary ule- versus- discretion debate, central bank credibility, argu the central bank and the financial markets. The course looks regulation and supervision of the financial system, and th	ments specif	for and	d agains nto the	st central bank independence, and the monetary policy process and the operation of
BANK	311	Bank Management II	3	0	3	BANK 220 OR BANK 221
structure o	decision-	nancial management concepts to the liquidity management, making process required by a commercial bank to perform e ulatory, and competitive environment.				
BANK	320	Commercial Bank Management II	3	0	3	BANK 220
structure o	decision-	nancial management concepts to the liquidity management, making process required by a commercial bank to perform e ulatory, and competitive environment.				
BANK	321	International Banking	3	0	3	BANK 221
well as the credit ratio	e institut oning, in	o cover the main principles and problems of international bar ional background to international banking. Theoretical issues ternationalization of banking, and the risks and benefits fron protection, capital adequacy and free banking in addition to	includ infinanc	le: the cial inn	theory ovation	of the banking firm, the creation of credit and . Practicalities of central banking, bank
BANK	330	Essentials of Islamic Banking	3	0	3	BANK 221
banks and objective i investmen	convent s to und t and fu ts are pr	o introduce students to the main principles of Islamic bankin cional banks and Islamic banks and non-financial corporation erstand the principles and practice of modes of Islamic finan nding corporations and projects to support development in N acticed to facilitate business, trade, finance and investment	s in the ice for Iuslim	e Islam industr societic	nic Worl y and c es. Stud	d and the Middle East in particular. One ommerce and explore their implications on ents learn how various Islamic financial
BANK	331	Islamic Commercial Law	3	0	3	
products of and their h jurisprude and finance	of Islamionybrid connections of the second content of the second c	o introduce students to the main principles of Islamic comme c banking and finance. The course offers the students to und intracts. In particular, the students need to be familiar with ad (the role of Muslim scholars in the interpretation of law)	lerstan the issu	d the s ues of s	source of Shariah	f Islamic law, the main nominate contracts compliance, different schools of Islamic
BANK	401	Corporate Banking Law & Practice	3	0	3	ECON 301 OR BANK 320 OR BANK 311
complex e	lements	es in-depth coverage of the legal relationships, obligations a of law relevant to individuals working within the corporate bated loans. Students obtain practice in drafting loan agreeme	anking	sector	from a	dvanced rules of contract to abstruse issues
BANK	410	Credit Analysis and Lending	2	2	3	BANK 302
ratio and o	cash flow	s a fundamental understanding of credit risk analysis proces: a analysis, to facilitate better credit related decision. Various senior management issues- that often affect creditworthiness	non-fir	nancial	factors-	the business plan, industry/ sector
BANK	499	Project in Banking	0	6	3	BFRM 498 AND ETHC 391 AND Completion of at least 90 credits
A structure banking or		approved project in banking ordinarily involving (1) research on.	on a p	articula	ar topic	in banking or (2) reporting on field-work in a
FINC	210	Financial Management	3	0	3	ACCT 101
financial m	narkets.	s a fundamental understanding of the functions of finance in A vigorous introduction to compound interest, future and pro- ing is provided.				
FINC	211	Financial Management I	3	0	3	ACCT 101

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite				
		Banking & Fin	ance							
financial m	narkets.	s a fundamental understanding of the functions of finance in A vigorous introduction to compound interest, future and pring is provided.								
FINC		Essentials of Corporate Finance	3	0	3	FINC 210				
the capital primary fo exposure t	This course explores in depth the concept of cost of capital: how it is used in financial decision-making and how costs of individual components of the capital structure are brought together to form a weighted average cost of capital. Choice of capital structure and working capital policy are a primary focus of this course. Students examine how to manage current (short term) assets and current (short term) liabilities and obtain exposure to additional issues including: cash flow estimation, incorporating risk into the capital budgeting decision and international capital budgeting decision-making methods. Students gain perspective on how financial managers can help maximize their firms' values.									
FINC	312	Financial Management II	3	0	3	FINC 211				
This course explores in depth the concept of cost of capital: how it is used in financial decision-making and how costs of individual components of the capital structure are brought together to form a weighted average cost of capital. Choice of capital structure and working capital policy are a primary focus of this course. Students examine how to manage current (short term) assets and current (short term) liabilities and obtain exposure to additional issues including: cash flow estimation, incorporating risk into the capital budgeting decision and international capital budgeting decision-making methods. Students gain perspective on how financial managers can help maximize their firm's values.										
FINC	320	International Finance & Banking	3	0	3	FINC 310				
analysis of	interna	ey and capital markets. Currency options, futures and swaps tional stocks and bonds. Foreign direct investment and politi and investment decisions of multinational corporations.								
FINC	321	Risk Management & Insurance	3	0	3	FINC 210				
organization valid insura	on of the ance co	uces the student to basic concepts of risk management and insurance industry: the insurance underwriter's functions, the insurance underwriter's functions, the insurance pore of insurance, the characteristics of an ideally insurable los	the mai	n parti After fi	cipants nishing	in the insurance market and the elements of a this course, the student should grasp the legal				
FINC	322	International Finance	3	0	3	FINC 312				
analysis of	interna	ey and capital markets. Currency options, futures and swaps tional stocks and bonds. Foreign direct investment and politi and investment decisions of multinational corporations.								
FINC	323	Insurance & Reinsurance	3	0	3	FINC 312				
demonstra reinsuranc	ite a stro e, and f	uces the student to the principles and applications of insurar ong basic understanding of property, liability, automobile ins unctions of reinsurance. Students should grasp the main typ le insurance industry.	urance	, introd	luction 1	to reinsurance, methods and types of				
FINC	327	Personal Finance	3	0	3	FINC 211				
methods w	vill be us	gned to introduce the student to the concepts, tools, and apsed to enhance the learning experience, including, among ot will be put on retirement plans, personal budget, and auto a	her thi	ngs, we	eb resou	urces and interactive financial planning				
FINC	328	Real Estate Finance	3	0	3	FINC 211				
underwritii		es in depth real estate institutions and markets, real estate r valuation of real estate. Special consideration is given to trer				nce in GCC countries.				
FINC	410	Credit Analysis & Lending	3	0	3	FINC 310				
to cover fi	nancial s	s a fundamental understanding of the credit risk analysis pro statement analysis, including ratio and cash flow analysis, to ness plan, industry/sector performance and senior managem	facilita	te bett	er credi	trelated decisions. Various non-financial				
FINC	411	Contemporary Issues in Economics and Finance	2	2	3	ECON 102 AND FINC 312				
This course is designed to provide students with critical knowledge and insight into the latest economic and financial topics that build on the conceptual foundation of previous courses through academic research, practical application, and critical thinking. Driven by the UN sustainable development goals, this course offers an opportunity to the students to explore several emerging issues in relation to economic and finance disciplines such as economic sustainability, sustainable finance, digital economy, and other sustainable technological components such as Artificial Intelligence, blockchain, financial technology, cybersecurity and bigdata analytics.										
FINC	421	Investment	2	2	3	FINC 312				
available in techniques	n financi s of asse	o manage money, this course provides students with a surve al markets including stocks, bonds, convertibles, warrants, f it valuation and market efficiency hypotheses. Students gain acquire the skill and know-how necessary to be intelligent in	utures insight	and op	tion . T	he course also introduces students to				

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Banking & Fin	ance						
FINC	427	Derivative Securities	2	2	3	FINC 312			
An advance futures.	ced prim	er on future contracts and options exploring a wide variety o	of comp	lex de	rivative	s such as straddles and options of stock index			
FINC	428	Financial Forecasting	2	2	3	STAT 202			
covered in	this cou , student	o introduce the statistical forecasting methods used in the fi urse such as smoothing, fixed trend and seasonality, stationals is need not invent a new model every time s/he forecast. In:	ary ARN	1A, reg	ression	on time series data, and GARCH for volatility.			
FINC	430	Risk Management	2	2	3	BANK 410			
of identify risks are d	The course offers an introduction into the evolving and expanding practice of financial risk management. Risk management is a complex process of identifying, measuring, and controlling risk exposure. The course addresses how to control for market and credit risks. Liquidity and operational risks are discussed. Topics include value at risk, Monte Carlo simulation, scenario analysis, stress testing, credit value at risk, and credit derivatives.								
FINC		Portfolio Management	3	0	3	FINC 310			
This cours also invest		es the theory and practice of portfolio management and valu	uation.	The ro	les of c	omputer technology and electronic trading are			
FINC	432	Islamic Capital Market & Instruments	3	0	3	BANK 330			
between In East in particular investment on investment with the experience of the second seco	The course aims to introduce students to the main principles of Islamic capital markets and instruments and to analyses of the relationship between Islamic capital markets and instruments and conventional Islamic capital markets and instruments in the Islamic World and the Middle East in particular. The course offers the students to understand the theories and practice of Islamic capital markets and explore their implications on investment and funding corporations and projects to support development in Muslim societies. In particular, the students need to be familiar with the essential requirements of different Islamic modes of business, thus enabling them to appreciate the distinctive characteristics of a capital market environment that adhered to Shariah principles.								
FINC	499	Project in Finance	0	6	3	BFRM 498 AND ETHC 391			
A structure finance or		approved project in finance ordinarily involving (1) research on.	on a pa	articula	r topic i	n finance or (2) reporting on field-work in a			
INTR	422	BSBF Internship	0	12	6	Completion of at least 90 credits			
program ir	n an org	en as a substitute to two courses (3 credits hours each) from anization related to their specializations. The program aims t and operations and to integrate what they have learnt in the	to provi	ide stu	dents w	vith first-hand experience of the day-to-day			
INTR	467	BSBF Internship	0	0	3	Completion of at least 90 credits			
	e of the	training program in an organization related to their specialized day-to-day functions, duties, and operations and to integrated rkplace.							
		Directorate of Engineering	ng Mar	nagem	ent				
EMSE	001	The Management of Technical Organizations	6	0	3				
research a performan	and findince and I	e management as applied within technical organizations. Inc ng and case studies, with objective of enhanced understand eadership requirements.	ing of e	externa	l and in	• • •			
EMSE	005	Organizational Behavior for the Engineering Manager	6	0	3				
		dividuals and groups in the context of technical organization ating activities. Individual and group development and motive							
EMSE	020	Decision Making with Uncertainty	6	0	3				
		on. Concepts and techniques used in analyzing complex deci cision trees, probability models, multi objective models and			s. Mode	ling decision problems. Modeling decision			
EMSE	026	Technical Enterprises	6	0	3				
		of technology based companies from the entrepreneur's poi company. Designed for those working in technical firms and							
EMSE	035	Marketing of Technology	6	0	3				
Analysis of and service		ial marketing process and functions, providing concepts and	tools f	or eng	ineering	managers to market high technology products			
EMSE	197	Special Topics: Quantitative Methods in Engineering Management	6	0	3				
Provides n		tical foundation for analysis of problems in engineering man	ageme	nt and	system	s engineering, including optimization and other			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of Engineerin	g Man	agem	ent			
EMSE	410	Survey of Finance and Engineering Economics	6	0	3			
Survey of	material	relevant to financial decision making of engineering activity.  nancial planning, budgeting and estimating applicable to the						
EMSE		Knowledge Management I	6	0	3	inical organizations.		
	<u> </u>	knowledge management, including cultural issues, technology			_	enizational concents and processes		
manageme	ent aspe	cts, and decision support systems. Case studies.			, ,	inizational concepts and processes,		
EMSE		Problems in Engineering Management & Systems Engineering Capstone Project	6	0	3			
groups on during the Selecting t	Capstone project is where students apply concepts and tools previously studied to the solution of a real-world problem. Students work in small groups on a problem proposed by students and approved by the instructor. Open only to master's candidates in the department, preferably during the last semester of their program. The final report from the capstone work must identify the knowledge employed from previous courses. Selecting the problem and solving it includes developing the teamwork necessary to carry out a project and to comply with the reporting requirements.							
EMSE	692	Negotiation and Conflict Resolution	6	0	3			
approache dynamics t negotiation diagnosing situations	Students acquire proven negotiation skills by using real-world case studies, learning abroad spectrum of theories underlying negotiating approaches, and putting their learning into practice. Learners discover a framework for understanding and addressing the challenging emotional dynamics that arise in everyday negotiations and conflicts. They uncover the emotions that generate more power and control, both in negotiations and in relationship challenges faced every day. Students gain the tools for early recognition of unhealthy conflict, accurately diagnosing its causes, and developing effective communication-based intervention strategies. They engage in simulations and real-world situations to practice different negotiation styles and are equipped for success in personal and professional relationships and difficult conversations. This course is tailored for engineering and technology professionals.							
EMSE	695	Special Topics: Research Methods for the EM	6	0	3			
dynamics t negotiation diagnosing situations	that arise ns and ir g its caus to practi	utting their learning into practice. Learners discover a frame e in everyday negotiations and conflicts. They uncover the e n relationship challenges faced every day. Students gain the ses, and developing effective communication-based intervent ce different negotiation styles and are equipped for success s course is tailored for engineering and technology profession	motions tools fo tion stra in pers	s that or early ategies	generat / recogr s. They	te more power and control, both in nition of unhealthy conflict, accurately engage in simulations and real-world		
EMSE	770	Techniques of Risk Analysis and Management	6	0	3			
Topics and analysis.	l models	in current risk analysis; modern applications of risk-based p	lanning	and r	isk mar	nagement; use of quantitative methods in risk		
EMSE	790	Logistics Planning	6	0	3			
		ods in model building for logistics systems, including organizations.	ation, p	rocure	ement, t	rransportation, inventory, maintenance and		
EMSE	801	Systems Engineering I	6	0	3			
		o the architecting and engineering of large-scale systems; e systems and software engineering; trends and directions; th						
EMSE	820	Program and Project Management	6	0	3	3 3,000 0 0 3		
Duties and	l respons	jing projects; project management as planning, organizing, osibilities; the project plan: schedule, cost, earned – value and tings, presentations and proposals.						
EMSE	850	Quantitative Models in Systems Engineering	6	0	3			
	ochastic:	ing techniques and their application to decision making in symodels: inventory control, queuing systems, and regression						
EMSE	992	Special Topics: Research Methods for the EM	6	0	3			
Discussion	of resea	arch methods for the Engineering Manager.						
EMSE	995	Research	0	12	6	EMSE 992		
		cts a study on a topic in the field of management under the blem identification, methodology, research evaluation and d						
	Directorate of FinTech							
FINT	511	Fundamentals of Financial Technology	3	0	3			
This cours		provide an understanding of financial technology theory and	d applic	ations	. The co	ourse starts by a new taxonomy of innovations		

that had affected the financial industry. It will then examine how bitcoin, and hence all blockchain and smart contract applications work, which together with big data techniques are used in FinTech. By the end of these course will provide a full understanding for how, why, and when banks, financial institutions and other firms can benefit from using these technologies as a way of making payments more efficient, improving

user experience, tokenizing assets, and setting up secure smart contracts.

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
course	Couc	Directorate of Fi			<u> </u>	rerequisite			
CINIT	L 512			1	١ ،				
FINT	512	Corporate Finance	3	0 capitr	3	ate discounted each flows, visit and asset			
		nes principles of management of the firm, operations of mon dern capital structure theories, leasing, working capital polici							
FINT	513	Blockchain and Cryptocurrencies Technologies	2	2	3				
internet in cryptocurr transacting law enforc	This course introduces students to the Blockchain technology that powers cryptocurrencies. Since Blockchains promise to be as crucial as the internet in shaping how business will be conducted in the future, this course explains the properties and mechanics of Blockchain and cryptocurrencies that make them secure and support other applications than currencies. Other topics covered include the mining, storing and cransacting with Bitcoin and altcoins, the anonymity of Bitcoin, the way altcoins or cryptocurrencies touch the real world and interact with politics, aw enforcement and regulations, and the future of Blockchain technology, Artificial Intelligence and Digital Privacy.								
FINT		Portfolio Theory & Investment Analysis	3		3	FINT 512			
theoretical allocation,	l and the portfolion and perfo	es you with a critical understanding of techniques used for in e practical applications of investments. Within this context, the o and diversification theory, portfolio selection and optimization formance evaluation. The course emphasizes case studies and	ne cour ion, as	se cov set pri	ers topi cing mo	cs related to investment environment, capital dels, efficient markets, fixed income, equity			
FINT	515	Big Data Analytics and Machine Learning in Finance	2	2	3				
communic inexpensiv students w data analy overview o	The expansion of social media and the computerization of every element of social and economic activity resulted in the generation of vast volumes of primarily unstructured big data, such as online logs, videos, speech recordings, pictures, e-mails, Tweets, and other forms of communication. Parallel to this, computers are becoming more powerful, and storage is becoming more affordable. We now can reliably and inexpensively store large volumes of data, analyze them effectively, and extract business and socially significant data. This course aims to equip students with a range of most relevant topics that pertain to contemporary analysis practices and are foundational to the emerging field of big data analytics. Students are guided through the theoretical and practical differences between traditional datasets and Big Data datasets. An overview of the initial collection of data will be explored for multiple data sources. The course will examine the basic tools for statistical analysis, such as R or Python and several machine learning algorithms.								
FINT	516	FinTech Ethics and Risks	3	0	3				
ethical prir inculcate in the busine essential c	nciples in nto stud ess world compone	, creative expression, or design processes. Students will also n various academic, professional, social, or personal contexts ents' key ethical principles, standards and ways in which bus l. The course provides ample opportunity for students to hor nts of a manager's decision-making process. The course also overview of corporate social responsibility.	s. In ad siness p ne skills	dition, ractiti in crit	throug oners actical thir	h ample case studies, the course attempts to ddress moral problems that commonly arise in iking and FinTech ethical reasoning as			
FINT	517	Cybersecurity & RegTech	2	2	3				
recommen cryptocurr challenges Your Custo	ndations encies s in prote omer (K	its students understanding RegTech and to become more control executives within the finance industry regarding how to reflect the course also allows students learn about how FinTech and exting data and security with digital forensics, risk management of the course also allows in FinTech (AML), and how government in FinTech	eact to d RegT ent and s in dif	chang ech dis d corpo ferent	es, such srupt ar orate go countri	n as Regulations to digital and ad transform finance industry, such as vernance in banking industry in terms of Know			
FINT		Entrepreneurship in FinTech	3	0	3				
Total global fintech investment is increasing and there are no signs that growth in this sector will slow down. This course enables the students to learn the latest trends in fintech and how do innovators, entrepreneurs, and other stakeholders see the space developing? The course also explores the general trends in FinTech and how do fintech entrepreneurs identify and assess opportunities in fintech? and what does the lifecycle of a fintech company – from ideation, to investment, to growth and acquisition – look like? This course will provide a strong foundation for those with a working level of knowledge in fintech and who are interested in starting or investing in fintech companies. In this course students initially explore the concept of FinTech entrepreneurship and evaluate themselves in terms of their own entrepreneurial skills with a view to formulating and realizing opportunity nuclei for profitable small FinTech business. Subsequently, students conduct feasibility studies and formulate business plans for feasible FinTech projects.									
FINT	519	Algorithm and High-Frequency Trading	2	2	3				
automated trading, ar	This course is an introduction to quantitative trading strategies based on various statistical methods. It teaches you how to build a robust and automated trading strategy. Topics include methodologies related to statistical arbitrage, factor investing, trend following, momentum, technical trading, and order book dynamics. Emphasis is on developing and empirically evaluating the algorithmic trading strategies based on statistical/mathematical models.								
FINT	558	Research Methodology	2	2	3				
		ning and executing a research project using analytic techniqu science, and qualitative methods relevant to research in bot							
FINT	599	Dissertation in FinTech	0	6	12	FINT 558 AND Completion of at least 21 credits			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of F	inTech					
focused st practical d demonstra progressiv	tudy which lata to as ate a cor ve course	vised in-depth study on a pre-approved topic in the field of ch aims to critically discuss the literature within a specified to a sess critically a specified area or topic; or (3) a practical development testing and to fintellectual discourse involving problem identification, more production of manuscript subject to public defense.	opic are velopm critical	ea; (2) ent stu analys	a resea dy which is. The	rch focused study which aims to draw on th aims to explore an area or ideas, or dissertation engages the student in a		
		Directorate of Fo	orensi	C				
ACCT	502	Auditing	3	0	3			
of auditing	This course aims at introducing students to the fundamental concepts of auditing. Mainly the course provides with a broad conceptual knowledge of auditing standards and auditors responsibilities while preparing the auditing reports. Additionally, students will recognize the steps of the auditing cycle and the importance of auditing in enhancing performance and preventing the business failures.							
MSFA	501	Forensic Accounting & the Legal Environment	3	0	3			
investigati legal conc end of the our societ	ion techr epts gov course y, exami	es the forensic accountant's role in today's dynamic business iques, valuation of closely held businesses, lost profits analy erning expert witness testimony are also examined, and lea learners will gain critical knowledge and understand both the the types of fraud and fraud schemes that affect busines ability to recognize potential fraudulent situations.  Computer Forensics & Auditing	/ses, ar rners a e perva	nd varion re requi sivenes	ous type ired to ss and t	es of litigation support services. Fundamental quantify economic damages in cases. By the che causes of fraud and white-collar crime in		
		es an overview of computer forensics and auditing related c			_	sinesses and the criminal justice system		
Demonstra custody ar discovery,	ations ar nd evide How cyl	nd hands-on practice will reinforce topics such as how complete handling, Investigative issues to know about before hiring ber-firefighters defend against cybercrime and other malicious and finally; Trends and issues affecting the future of the incomplete and finally; Trends and issues affecting the future of the incomplete and finally;	uters ai ng a foi us onlir	e used ensic i e activ	in crim nvestiga ity, Em	e, Computer forensic basics, including chain of ator, Managing forensics in electronic erging standards of care in the handling of		
MSFA	503	Corporate Governance and Ethics	3	0	3			
ensuring s critical kno understan	such rule owledge iding of t	nce and business ethics are areas of rapidly growing imports are in place. It focuses on a range of issues concerning the and understanding of the underlying concepts of corporate the ethical influences on economic, financial, managerial, and thical issues in business and beyond.	e prope govern	er mana ance, a	agemen Ind busi	t of organizations. The course aims to develop ness ethics. It is designed to foster		
MSFA	<u> </u>	Fraud and Financial Crime Investigation	2	2	3	MSFA 501		
be accoun includes q	nting and Juestions	ps the critical understanding of the types of fraudulent finar auditing theory, fraud schemes, internal controls to deter frabout interviewing, taking statements, obtaining information ort writing.	aud an	d othe	r auditir	ng and accounting matters. This course		
MSFA	505	Cyber Forensics and Security	2	2	3	MSFA 502		
given crim knowledge gathering, security te	ninals acc e and ex , examina echnolog	information technology has made it possible for business an cess to a brand-new kind of crime: digital crime. The aim of perts in the detection, correction, and conviction of digital cr ation, interpretation, and presenting of prospective evidence y. These are the ideas learners will gain in this course. Law re digital forensics extensively for the prosecution or protection	this con rimes. The to cou enforce	urse is This em rts. It i ment a	to fill therging is based and the	ne new and increasing need for critical field applies scientific techniques to the If on computer digital forensic and computer		
MSFA	506	Research Methodology	2	2	3	Completion of at least 9 credits		
from busin technologi investigate	ness and y. The le e comple	ning and executing a research project using analytic technique accounting sciences, and qualitative methods relevant to rearners will gain critical knowledge and understanding of varex issues in forensic accounting. The learner will be able to a disting knowledge.	search ious res	in busi search	ness, fo method	orensic accounting, and information Is that could be professionally applied to		
MSFA	507	Risk Management	3	0	3			
This course delves into the significance of effective financial and operational risk management strategy as a necessity for organizational sustainability. It aims to provide learners with a solid theoretical foundation as well as the opportunity to gain the necessary risk management skills. It includes a thorough examination of the risk management components: risk identification, risk analysis, response planning, risk mitigation, and risk monitoring. Topics include, but are not limited to, risk analysis in organizations, as well as tools and instruments used to manage those risks.								
MSFA	508	Digital Criminology	3	0	3			
topics rela will gain c the crimin	nted to cl critical kn al justice	ovide learners with professional skills to critically evaluate the narge of new crimes, regulations, security frameworks and to owledge and understanding in relation to digital criminology a system. At the end of this course the learner will be able to critical synthesis.	he imp definit	act of o	ligital tr suppor	ansformation on court procedures. The learner t critical judgements and decision making in		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of Fo	orensi	С				
MSFA	509	Fraud Prevention Techniques	2	2	3	MSFA 502		
including s prevention	egregat , fraud	evelop the learners critical understanding of reasons people ion of duties, internal control, enterprise risk management, or risk assessment, and the Association of Certified Fraud Examain critical knowledge and professional level of skills to Interp	crime c niners (	ausation	on, whit Code o	e-collar crime, occupational fraud, fraud		
MSFA	510	Expert Witnessing and Dispute Resolution	3	0	3			
technicaliti and be fan court envir	The use of forensic accountants as expert witnesses has proliferated in both civil and criminal litigation. Learners gain insight into the echnicalities of expert forensic testimony. Forensic accounting experts must understand the limitations of their involvement in legal proceedings and be familiar with civil and criminal procedures in jurisidctions where they are called upon to provide forensic accounting expertise. A moot court environment is used to demonstrate the experience of appearing in a formal hearing, and students are asked to also prepare or critique an expert report in mock civil and criminal cases in which forensic accounting evidence is pivotal to legal outcome.							
MSFA	599	Dissertation in Forensic Accounting	0	24	12	MSFA 506 AND Completion of at least 21 credits		
methodolo study whic explore an engages th accounting	This course will provide a structured supervised in-depth study on a pre-approved topic in the field of Forensic Accounting involving one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the learner in a progressive course of intellectual discourse involving problem identification of complex issues related to forensic accounting, methodology, critical analysis and research, evaluation and recommendation that culminates in the production of manuscript subject to defense.							
		Directorate of MBA	Progr	ams				
ACCT	500	Accounting	2	0	0			
statements	for bot	v of the basic concepts and principles of financial accounting th service and merchandising concerns. And detailed view of tts of financial statements and disclosure requirements.  Accounting						
statements	for bot elemer	v of the basic concepts and principles of financial accounting th service and merchandising concerns. And detailed view of its of financial statements and disclosure requirements.  Financial Accounting						
A general of statements	overviev s for bot	v of the basic concepts and principles of financial accounting th service and merchandising concerns. And detailed view of tts of financial statements and disclosure requirements.						
ACCT	520	Accounting Theory & Practice	3	0	3	ACCT 522		
principles, modern de concepts 8	concept velopm fundar	es an overall framework encompassing the entire gamut of a is & policies of accounting. In addition, these sub-topical are ents in business and finance. This course also provides in-de nentals of managerial and financial accountancy with applica by is explored within the framework of this course.	as, rat pth co	her tha verage	n being of com	viewed in isolation, are put in the context of prehensive accountancy theories including the		
ACCT	521	Financial Reporting & Control	3	0	3			
book data, discussed.	and pro	ourse, first financial reporting in theory is juxtaposed with the edetermined data contained therein. Issues such as the accu , internal auditing with respect to its concepts, fundamentals ancy. Reports prepared by internal auditors and submitted to	iracy a s, comp	nd trut conents	hfulness s and de	s of the data quoted in the financial reports are evelopment are put in the context of manual &		
ACCT	522	Managerial Accounting	3	0	3			
	st behav	esizes the use of accounting data in the managerial decision riors and cost-volume-profit analysis, cost management syste unting.						
ACCT	523	Advanced Topics in Accounting	3	0	3	ACCT 522		
national co	mpanie	es an overview of the latest developments in the field of acc s in the context of transactions between national and foreign ole of accounting in e–commerce and potential developmen	n comp	any br	anches.	Specialized topics such as electronic		
ACCT	524	Auditing Theory & Policy	3	0	3			
auditors, the level to wh	he funda nich the	ehensively surveys the topics of internal and external auditir amentals of auditing, sample auditing & external auditor repo are submitted and electronic auditing. The course also add w to an assessment of the following risk factors: environment	orts as resses	to forr style o	n and c f auditir	ontent especially in light of the managerial ng and discusses modern developments in		

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		,			•			
Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of MBA	Progra	ams				
ACCT	595	Dissertation in Accounting - Track 2	0	12	6	MAGT 550		
		cts a study on a topic in the field of accounting under the sudentification, methodology, research evaluation and discussion						
ACCT	598	Project Dissertation in Accounting	0	6	3			
		cts a study on a topic in the field of accounting under the sudentification, methodology, research evaluation and discussion						
ACCT	599	Dissertation in Accounting - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits		
A structured supervised in-depth study on a pre-approved topic in the field of Accounting can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.								
BANK	541	Islamic Banking	3	0	3			
This course examines some of the fundamental concepts and instruments of Islamic banking and finance. Islamic banking in recent years has generated considerable interest in the subject by becoming attractive to students of economics, finance, and business in both Muslim and non-Muslim countries. The topics covered include broad theoretical and religious principles drawn on Islamic Shari'ah and conventional economics. Among the subjects taught are riba, mutharabah, musharakah, murabahah, baitul mal, gharar, takaful, qard and istisna. The course also attempts to shed some light on the future prospects of Islamic finance in the wake of rapid financial globalization.								
BANK	542	Economics of Banking	3	0	3			
This course provides a sound theoretical basis for examining bank behavior to enable students understand contemporary trends in banking. It covers a wide range of topics including theory of the banking firm, trends in international banking, the structure of banking, liquidity problems, risk management and macroeconomics of banking. The course is useful for final year undergraduate and postgraduate students specializing in finance and banking.								
BANK	543	Advanced Topics in Banking	3	0	3			
advisory, r manageme theory of f regulatory	mergers ent and inancial environ	o impart a practitioner's perspective on all or a subset of the and acquisitions, project finance, sales and trading of securitors-border investing from the vantage-point of the investmintermediation, risk management the interaction of the ment with managerial decisions, and international banking from banking industry. May be repeated for credit if topical conte	ties, de nent ba om the	erivativ nking i e vanta	es and of industry gepoint	commodities; equity research; investment r; and asset, liability, and capital management,		
BANK	544	Banking Law	3	0	3			
law, the st consolidati financial co and privac	This course primarily focuses on the basic legal concepts governing international commercial banking law, the structure of international banking and conflict of laws through an assessment of legal trends in various national banking laws fostering consolidation of the banking industry; regulation of financial institutions in cyberspace; development of electronic currency, SmartCards, and financial commerce on the Internet; globalization of banking, currencies, and commerce; development of data protection and privacy laws; and anti-money laundering provisions and Basle II. Secondarily, the course examines the role that governmental institutions play in regulating the investment banking sector especially stock market regulation.							
BANK	595	Dissertation in Banking - Track 2	0	12	6	MAGT 550		
		cts a study on a topic in the field of banking under the supe dentification, methodology, research evaluation and discussion						
BANK	598	Project Dissertation in Banking	0	6	3			
member. 7	The final	cts a study on a topic in the field of banking under the supe written manuscript which includes problem identification, m evaluation.				evaluation and discussion of the findings is		
BANK	599	Dissertation in Banking - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits		
A structure	ed super	vised in-depth study on a pre-approved topic in the field of E	Banking	can e	ntail on	e of three methodologies: (1) a literature-		

A structured supervised in-depth study on a pre-approved topic in the field of Banking can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Directorate of MBA	Progra	ams			
DMBA	599	MBA Dissertation	0	24	12		
entail one research for which aims dissertatio	of three ocused s s to expl on engag	vised in-depth study on a pre-approved topic in the field of new methodologies: (1) a literature-focused study which aims to study which aims to draw on practical data to assess critically lore an area or ideas, or demonstrate a concept through appeas the student in a progressive course of intellectual discour	o critica y a spe propriat se invo	lly disc cified a e pract lving p	cuss the area or t cical dev problem	eliterature within a specified topic area; (2) a topic; or (3) a practical development study relopment testing and critical analysis. The identification, methodology, research,	
	1	commendation that culminates in the production of manuscri	<del>`                                    </del>			efense.	
ECON		Economics	3	0	0		
The objective of this course is to help students understand the theoretical foundation of economic analysis. It examines the functioning of the economic system by analyzing its main components. The course includes theoretical aspects to market structure, production, consumption, prices, money, and income along with the relevant concepts and policies that can be used by advanced undergraduate and postgraduate students.							
ECON	520	Managerial Economics	3	0	3		
markets and market eq course seed and policy tools will b	This course is designed to provide participants with a basic understanding of microeconomic theory that can be used to understand behavior (in markets and organizations) to make effective managerial decisions. Application of key economic concepts such as market demand, market supply, market equilibrium, managerial analysis, production, costs, revenue, profit, and market structure constitute the core material of the course. The course seeks to integrate various principles and concepts from different fields of economics with typical problems of managerial decision —making and policy formulation in business organizations whether in a local or global context. Quantitative techniques and managerial economic analysis tools will be integrated within the course for the purpose of providing students the ability to solve real world situation and as a problem- solving tool in their organization.						
ECON	530	Economics Theory	3	0	3	ECON 520	
features a of consum	This course covers advanced theoretical concepts in micro and macroeconomics. It affords students the opportunity to gain insight into the main features and complexities of economic analysis by integrating micro and macroeconomics theories. Students gain a holistic view of the interaction of consumers, producers, markets and governments through the prism of prices, markets and exchanges. The effectiveness of economic policy as a means to influence key indicators of the performance of economies, at various stages of development, are also examined.						
ECON	531	Economics & Management Discussions	3	0	3		
students u towards so technology	inderstai ome of t y for ma	s advanced topics in the fields of economics and managemen nd some of the emerging trends at both global and regional he challenges brought by globalization, trade, finance, know nagement. The course is conducted in a seminar form to end fidence in academic presentation.	levels. ledge n	It is or nanage	iented ement,h	numan resource management, and information	
ECON	532	International Business & MNCs	3	0	3		
course aim using unde internation	ns to pro erstandir nal trade	o provide advanced treatment of the environment of internal ovide managers of international companies tools to equip the ng and awareness of globalization, cultural differences, political and FDI practices and international monetary and financial ciently in business.	mselve cal, leg	s with al and	the pra ethical	ctices of business in the international arena aspects of business around the globe,	
ECON	533	Industrial Organization & Business Strategy	3	0	3		
organizatio	on focus	anch of economics with direct applications to the business w es on the mechanism through which firms exercise potential rket structure, firm strategy, market performance, firm objec	marke	t powe	r.	nd behaviour and regulation and industrial	
ECON	534	Economic Methods for Business Analysis	3	0	3		
Regression	n, Model relation,	s advanced level skills in the following areas of econometrics Specification, Multicolinearity, Tests for Structure Change, F Distributed Lagged Dependent Variable Models and Time Se	leteros	cedasti	icity and		
ECON	535	Monetary Theory & Policy	3	0	3		
monetary payments,	This course provides students with a set of tools to understand and systematically analyze the monetary side of the international economy. Students develop the theory by examining balance of payments, the determination of exchange rates, money, interest rates and prices in open economies, different exchange rate regimes (fixed vs. floating), interdependence of macroeconomic variables and the international financial markets.						
ECON	536	International comparative Regulation & Law	3	0	3		
is placed or reference	on the W is made	se examines international trade regulation under the WTO ar TO Dispute Settlement Body and its emerging jurisprudence to GCC countries, treatment of the GATT within domestic legisters are unions around the world. Concepts of anti-dumping,	. Though	gh part tems is	ticular studied		

and economic point of view. Bilateral investment treaties for the protection of foreign investment are covered, as is the World Bank ICSID Convention. Other major treaties regulating trade are noted such as the conventions on the assignment of receivables and factoring.

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
	Directorate of MBA Programs								
ECON	537	International Business & Multinational Corporations	3	0	3				
theory of v	world tra evaluatio	nt of the environment of international business and of the or ade and investment, application of economic theory to intern on and valuation of international projects, strategies and tack	ational	busine	ess oper	rations, the political economy of international			
ECON	595	Dissertation in Economic - Track 2	0	12	6	MAGT 550			
The stude	nt condu roblem i	ucts a study on a topic in the field of economics under the sudentification, methodology, research evaluation and discussi	ipervision of th	on of a ne find	faculty	member. The final written manuscript which subject to a panel evaluation.			
ECON	598	Project Dissertation in Economic	0	6	3	MAGT 550			
includes p		icts a study on a topic in the field of economics under the sudentification, methodology, research evaluation and discussion							
ECON	599	Dissertation in Economics - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits			
focused st practical d demonstra progressiv	tudy which lata to as ate a con re course	vised in-depth study on a pre-approved topic in the field of ch aims to critically discuss the literature within a specified to seess critically a specified area or topic; or (3) a practical development testing and a of intellectual discourse involving problem identification, more or discourse involving problem identification, more or manuscript subject to public defense.	opic are velopme critical	ea; (2) ent stu analys	a resea dy which sis. The	arch focused study which aims to draw on ch aims to explore an area or ideas, or dissertation engages the student in a			
FINC	500	Finance	2	0	0				
		es basic concepts of finance and provides students perspect e time value of money and cost of capital.	ive on h	iow fin	values	. Students are introduced to core concepts in			
FINC		Financial Management	3	0	3				
		nes principles of management of the firm, operations of mor dern capital structure theories, leasing, working capital polici							
FINC		Financial Analysis	3	0	3	FINC 501			
firm and the for perform accounting	he predio mance ev g analysi	cerned primarily with the valuation of companies. It examine ction of its future economic condition. The major emphasis is valuation, equity investment decisions and credit analysis. To is. Attention is then turned to the use of financial statement and bankruptcy prediction).	s on the opics co	e use a overed	nd inte include	rpretation of financial statement information traditional ratio analysis techniques and			
FINC	503	Investments	3	0	3				
current inv	vestment	ors available investment instruments and analyzes the way ca ts and future opportunities are presented. Specific topics inc eries, investment valuation, stock options, warrants and con	lude: o	rganiza	ation an	d functioning of securities markets, stock			
FINC	504	Portfolio Management*	3	0	3				
delineating process, se	g efficier electing	how financial managers can conduct portfolio analysis using nt portfolios. It shows the techniques for calculating the effic the optimum portfolio. Then it gives emphasis to the evalua security analysis.	ient fro	ntier. 1	It focus				
FINC	505	Capital Budgeting & Project Evaluation	3	0	3	FINC 501			
return. Cas	se studie	s on using capital budgeting techniques to evaluate projects es concern the role of financial administration in managing crgers and acquisitions among other topics.							
FINC	506	International Finance	3	0	3				
operations restrictions transfer of	s. It focu s and tax	cerned primarily with a revision of the international monetary uses on analysis of the effects of international financial plann ox regulations. It gives an examination of financial aspects of currency options, futures and swaps as means for currency	ing on s multina	such fa ational	actors a busines	s exchange rate fluctuations, currency ss, including foreign investments, trade and also given details.			
FINC	507	Financial Modeling & Optimization	3	0	3	FINC 501			
today's fin actions for an integra	nancial m r a comp nted pro- function	ne course is to develop skills in designing and constructing finanagers and professionals. We will use a discounted cash flow any. A structural approach will also be used for valuation by forma statement. Students will learn how to use a variety of its, what-if scenarios, one-and two-way input tables, pivot talks.	ow valu incorpo spread	ation a orating Isheet	approac all ope tools ar	h in analyzing decisions about the courses of erational and financial aspects of the firm into a techniques, such as financial and statistical			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of MBA	Progr	ams				
FINC	508	Investment Analysis & Portfolio Management	3	0	3	FINC 501		
analysis fro stock valua	om the sation, ar	gned to study security markets and security analyses for por standpoint of individual investors. Topics include investment id market indices. The second part of the course examines in arkets, portfolio theory, capital market theory, portfolio perfo	alterna nvestm	tives, s	security rtfolio fo	markets, trading procedures, bond valuation, ormation, management and evaluation. Topics		
FINC	509	Finance	3	0	3			
		es basic concepts of finance and provides students perspecti e time value of money and cost of capital.	ive on l	now fir	n values	. Students are introduced to core concepts in		
FINC	510	Managerial Finance	3	0	3			
		es basic concepts of finance and provides students perspecti e time value of money and cost of capital.	ive on l	now fir	values	. Students are introduced to core concepts in		
FINC	595	Dissertation in Finance - Track 2	0	12	6	MAGT 550		
		cts a study on a topic in the field of finance under the super dentification, methodology, research evaluation and discussi						
FINC	598	Project Dissertation in Finance	0	6	3			
FINC	599	Dissertation in Finance - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits		
focused str practical da demonstra progressive	A structured supervised in-depth study on a pre-approved topic in the field of Finance can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.							
ITMA	570	Management Information Systems	3	0	3			
knowledge captured, t	assets. tacit exp	tes an integrated approach to identifying, capturing, retrievi These information and knowledge assets encompass databa ertise and experience resident in individual workers. It is students with real world principles, tactics and strategies f	ases, d	ocume	nts, pol	icies and procedures as well as the un-		
ITMA		Advanced E-Commerce	3	0	3	ITMA 570		
technology that activit organizatio	has de y are er onal pos	debates concerning electronic commerce on the World Wide veloped to support such commerce and how new forms of conerging. Particular emphasis is placed on: the underlying tects ibilities inherent in the Web; the principles of developing an e-commerce; and the emergent social and technical trends	ommer chnolog d man	cial act ical inf aging e	tivity an rastruct e-comm	d management of knowledge derived from cure for e-commerce; the business and		
ITMA	572	Information Systems & Organizational Management	3	0	3			
both norm within orga	ative mo anisation	uces information systems (IS) operating in various organisat odels and practical examples paying particular heed to strate as and to the success of IS within the backdrop of organisati studies using normative models which are themselves subje	gic ele onal ch	ment o ange.	of IS Student	s are expected to learn how to evaluate and		
ITMA	573	Database Systems	3	0	3			
manipulate implement Database I	e and re a relati Managei	es data bases as the underlying framework of information sy trieve data with particular emphasis on the relational model onal database within the concept of an information system u ment System as well as to understand RDBMS, advantages a query processing.	and rel Ising ap	ational opropri	l system ate ana	lysis and modelling techniques and a modern		
ITMA	574	Systems Project Management	3	0	3	ITMA 570		
environme	nt for th	anagement, broadly defined as the disciplined management ie integration of people, process and technology. This course itional approaches to systems project management and (2)	e explo	res suc	ch a ma	nagerial environment along different axes of		
ITMA		Strategic Planning for Information Systems	3	0	3			
society. A emphasis of	primary on interi	r-disciplinary in that it examines complex market, business a focus of the course concerns theoretical models and framewhet commerce. Secondary emphasis is placed on evaluation of sourcing) and understanding emerging trends in electronic	orks foor	r strat types (	egic pla of IT ou	nning for information systems with particular itsourcing (total, selective, and joint venture		
ITMA	595	Dissertation in ITMA - Track 2	0	12	6	MAGT 550		
	nuscript	cts a study on a topic in the field of management informatic which includes problem identification, methodology, resear						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Directorate of MBA	Progr	ams		
ITMA	598	Project Dissertation in Management Information Systems	0	6	3	MAGT 550
supervisior	n of a fa	icts a study on a topic in the field of management informatic culty member. The final written manuscript which includes p arch evaluation and discussion of the findings is subject to a	orobĺem	identi	fication	
ITMA	599	Dissertation in ITMA - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits
A structured supervised in-depth study on a pre-approved topic in the field of management information systems and information technology can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.						
MAGT	500	Quantitative Methods	2	0	0	
This course introduces applied statistics for business and management with topics in descriptive statistics, estimation, hypothesis testing, analysis of variance, simple regression and correlation, and time series forecasting. The various tools learned will be applied through the use of worksheet computer applications and realistic interpretation of output. The course is designed to acquaint the student with issues in methods of data analysis in the real world. Examples arise from finance, marketing and other functional areas of business research.						
MAGT	501	Quantitative Methods	3	0	3	
This course introduces applied statistics for business and management with topics in descriptive statistics, estimation, hypothesis testing, analysis of variance, simple regression and correlation, and time series forecasting. The various tools learned will be applied through the use of worksheet computer applications and realistic interpretation of output. The course is designed to acquaint the student with issues in methods of data analysis in the real world. Examples arise from finance, marketing and other functional areas of business research.						
MAGT	550	Research Methods & Modeling	3	0	3	Completion of at least 9 credits
		ning and executing a research project using analytic techniques cience, and qualitative methods relevant to research in bo				
MAGT	551	Operations & Quality Management	3	0	3	
organization management MAGT Topic may hierarchy p	on. Other ent. 552 include process	Decision Analysis & Business Forecasting  decision-making under uncertainty, decision trees, multi-crie(AHP), principles and methods of forecasting including an ev	3 iteria d	0 ecision n of: tl	y mana 3 -making ne relial	gement, and capacity planning and materials  g, data envelopment analysis (DEA), analytical bility of existing forecasting techniques,
		national trends and the role of business forecasting in managhing and Box-Jenkins (ARIMA) techniques for business and o				
MAGT	553	Supply Chain Management	3	0	3	
coordinatio	on amon oply cha	s on improving the performance of the firm and its supply of g multiple sites, functions, and economic factors. Students w in strategies that have been adopted by leading companies, ce.	will lear	n to us		
MAGT	554	Statistical Inference in Managerial Decision Making	3	0	3	
discriminar	nt analy:	techniques and applications of multivariate statistical methosis, multivariate analysis of variance, factor and cluster analy business, marketing, economics, and finance are emphasize	ysis. Ap			
MAGT	555	Operations Management Strategy	3	0	3	
in a global	market	ers must take strategic decisions to operate a production or place. The specific topics include operations strategy framew ment; total quality management, capacity, location planning	vork, pr	ocess	manage	ement, and management of technology,
MAGT	556	Operations Research in Business Planning	3	0	3	
unconstrai operations	ned opti researd	dvanced optimization models for linear and non-linear systen mization, dynamic programming, integer programming, que h applications to business, finance and oduced and analyzed.				rkov analysis. Case studies involving
MAGT	557	Service Operations & Project Management	3	0	3	
The course discusses the complexities involved in project management, the use of networks in large scale projects and the development of networks; unique managerial problems associated with the design, control, planning and evaluation of service systems; tactical and strategic problems faced by service managers; and how decisions are actually made in the real world.						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Directorate of MBA	Progra	ams			
MAGT	558	Research Methodology	2	2	3		
		ing and executing a research project using analytic techniquescience, and qualitative methods relevant to research in bo					
MAGT	560	Human Resource Management	3	0	3		
The course emphasizes the role of Human resources as the most important asset in the organization. It explains the importance of proactive human resources management for organizational performance and highlights the alternative views of human resources management. It also explains the concept of strategic human resources management and the importance of fitting human resources practices to business strategy. Topics draw from different disciplines to explain the principles of human resources planning, recruitment and selection, training and development, career development, job analysis and job design, performance management and performance appraisal. The course also covers areas related to employees' compensation, protection, incentive plans and reward system as well as the management of International human resources.							
MAGT	561	Strategic Management	3	0	3		
competitive internal endifferent control	e advant vironme ontexts :	the strategic management process and corporate strategy: tage, and profitability; and the main components of the stratests. Students gain an appreciation of how organizations can spanning the global environment. Concepts such as integrating the corporate strategy.	tegic m build o	anagei compet	ment pr	ocess including analysis of both external and vantage using different levels of strategy in	
MAGT	562	Competition, Innovation & Strategy	3	0	3		
forces and models of necessary	various innovati for susta	rent disciplines to examine what makes certain organization external and internal factors shaping organizational strategi on and meet the challenge of building and maintaining innovaining superior performance. This course ciples of innovation management process and emphasizes the	es to m ation a	naintair as one	of the o	etitive advantage. Students explore various core competencies of the organization	
MAGT	563	Entrepreneurship & Small Business Strategy	3	0	3		
Entreprene initially expand realizing feasible property. MAGT  An introduction and core colleadership	eurial tal plore the ng oppo ojects.  564  ction lea competer effective	dents cultivate conceptual and applied skills requisite to deverents are focused, and practical decision-making skills are deconcept of entrepreneurship and evaluate themselves in tertunity nuclei for profitable small business. Subsequently, studently, studently, in Organizations  dership. Its practices associated theory and current research cies of successful leaders, this course introduces the leader eness. Major theories and research on leadership and its religious and debate associated different views about the content of the course of th	veloped rms of udents 3 h. Preso ship ch	d throu their o conduc 0 enting allenge ip to m	gh exp wn entr ct feasil 3 moderr e in org	eriential activities in small businesses. Students repreneurial skills with a view to formulating bility studies and formulate business plans for a thought and practices related to leadership anizations and focuses on how to improve ment are inculcated and then students have the	
Students e	xamine	ress and debate controversies and different views about lea- effective and ineffective behaviors through the lens of various, se, case studies and role playing techniques are employed to	us mod	els of I	leadersl	nip including transformational leadership.	
MAGT	565	Organizational Behaviour	3	0	3		
as a functi perception dynamics of design, org	on of the , and at of teams ganization	rent disciples including psychology and sociology, this cours e individual, the group within which the individual interacts, titude. Students examine the influence of process within org , decision-making and conflict resolution on individual behanal tional culture and change.	and the anization	e orgar ons s	nization such as	al setting. Topics include individual's values, motivation, leadership, communication, group	
MAGT	566	Interactive Business Communications	3	0	3		
Models of communication and inasm	This course introduces communications in organizations and overviews the theories, practices and techniques of interactive communications.  Models of communication are presented and contemporary issues in business communication are discussed with a view to understanding communication failure. Communications skills – aural, oral and semiotic – are applied to leadership and management in business organizations and inasmuch as interpersonal communications strategies and work relationships, and group communications, as well as public presentation, strategies are developed.						
MAGT	567	Entrepreneurship & Family Business Management	3	0	3		
Entreprene initially exp and realizing	In this course, students cultivate conceptual and applied skills requisite to developing and managing an economically successful small business. Entrepreneurial talents are focused and practical decision making skills are developed through experiential activities in small businesses. Student initially explore the concept of entrepreneurship and evaluate themselves in terms of their own entrepreneurial skills with a view to formulating and realizing opportunity nuclei for profitable small business. Subsequently, students conduct feasibility studies and formulate business plans for feasible projects.						
MAGT	595	Dissertation in Management - Track 2	0	12	6	MAGT 550	
	vritten m	cts a study on a topic in the field of management under the lanuscript which includes problem identification, methodolog					

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	6-4-		I	T	l 6::	Burne mulate
Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Directorate of MBA			_	
MAGT	598	Project Dissertation in Management	0	6	3	
		cts a study on a topic in the field of management under the blem identification, methodology, research evaluation and d				
MAGT	599	Dissertation in Management - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits
literature-f draw on pr demonstra progressive	ocused ractical of the action	vised in-depth study on a pre-approved topic in the field of I study which aims to critically discuss the literature within a sdata to assess critically a specified area or topic; or (3) a pracept through appropriate practical development testing and of intellectual discourse involving problem identification, meteoduction of manuscript subject to public defense.	pecific ctical of critica	ed topio develop I analy	c area; ( oment s sis. The	(2) a research focused study which aims to tudy which aims to explore an area or ideas, o dissertation engages the student in a
MAKT	511	Marketing Management II	3	0	3	
The course explores a wide variety of topics in marketing and analysis of marketing opportunities through the case method: building customer satisfaction, value and retention; winning markets through market-oriented strategic planning, gathering information and measuring market demand, analyzing consumer markets and buyer behavior, competitor analysis, identifying market segments and selecting target markets, positioning and differentiating the market offering through product life-cycle and developing new market offerings. Special emphasis is placed on analytical methods in solving marketing problems.						
MAKT	512	Marketing Strategy	3	0	3	
advantage allocating to the sele executives the market survey of s	The corresource ection of and top tplace; retrategie	opportunities and sources of competitive urse also looks at the strategic implications of market evolutes to new and established products. Problems, resources and company marketing objectives and the most feasible means management in their attempt to harmonize the objectives accent theoretical developments in marketing and related dissipations available to the marketing planner, the different approaches, optimal market segmentation and optimizing the marketing	l alterr for ac and res cipline es to s	native of thieving sources s and t trategy	courses g compa s of the their app	any goals. Major decisions facing marketing organization with the opportunities found in olication in management. Key topics include: a
MAKT	513	Industrial Strategy	3	0	3	
marketing industrial b	mix and ouyers a	on manufacturing, this course explores business buyer beha the formulation of industrial marketing plans. The distinctiv nd sellers is systematically covered through an intensive exp Special reference is made to crossborder industrial marketing	e char loratio	acter c	f	market pricing, channeling, promotion and
MAKT	514	Marketing Research	3	0	3	
spanning: information of: random	problem n (size o n sampli	with a streamlined overview of market research procedures definition, research design, data collection and sampling terf market, demographic composition, market-share of compeng theory, multivariate statistical analysis, conjoint analysis auestionnaire design and evaluation.	chniqu titors,	es. Stu produ	idents le ct attrib	utes, size of market segments) through the use
MAKT	515	New Product Development	3	0	3	MAKT 511
The course	e overvie	ews the new product development process from the perspec	tive of	: oppo	rtunity	
This course	e introdu nalytic r	generation, product design, testing and launch and life-cycle uces students to the process of designing and marketing nev nethods – including, but not limited to, factor analysis, multi n.	v prod	ucts ar	nd how	and discriminant analysis can reduce risk and
MAKT	516	Advanced Marketing Management	3	0	3	MAKT 511
This course explores further issues in marketing and analysis of marketing opportunities through the case method: setting the product and branding strategy; formulating and implementing price strategies; designing and managing value networks and marketing channels; managing retail, wholesaling and market logistics; managing integrated marketing communication; and managing sales forces.						
MAKT	517	E-Marketing Management	3	0	3	ITMA 595 AND MAKT 511
adapted to	the Ne	arkets in the 21st Century, this course provides insight into has Economy in surveying a broad swath of marketing topics. The course. Special emphasis is placed on selecting e-market	Case r	nethod	lis	
MAKT	518	Legal Aspects of Commercial Transactions & Marketing	3	0	3	
	<u> </u>	d level course on the private law of international contracts o		1 -		1
internation overview o	nal mark of interna	eting law. The course covers (i) comparative private law of cational instruments on the international sale of goods such a romotions, trademarks, copyrights and advertising – through	contracts the l	t and o	of sale; ovention	and the Incoterms; and (iii) Four areas of
MAKT	519	Marketing Management	3	T o	3	and meaning laws.
		1				I

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of MBA	Progra	ams				
satisfactio demand, a positioning	The course explores a wide variety of topics in marketing and analysis of marketing opportunities through the case method: building customer satisfaction, value and retention; winning markets through market-oriented strategic planning, gathering information and measuring market demand, analyzing consumer markets and buyer behavior, competitor analysis, identifying market segments and selecting target markets, positioning and differentiating the market offering through product life-cycle and developing new market offerings. Special emphasis is placed on analytical methods in solving marketing problems.							
MAKT	595	Dissertation in Marketing - Track 2	0	12	6	MAGT 550		
		icts a study on a topic in the field of marketing under the su dentification, methodology, research evaluation and discussi						
MAKT	598	Project Dissertation in Marketing	0	6	3			
MAKT	599	Dissertation in Marketing - Track 1	0	24	12	MAGT 550 AND Completion of at least 24 credits		
focused st practical c demonstra progressiv culminate: STAT This cours variance, computer	A structured supervised in-depth study on a pre-approved topic in the field of Marketing can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical development study which aims to explore an area or ideas, or demonstrate a concept through appropriate practical development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.  STAT 510 Business Statistics 3 0 3  This course introduces applied statistics for business and management with topics in descriptive statics, estimation, hypothesis testing, analysis of variance, simple regression and correlation, and time series forecasting. The various tools learned will be applied through the use of worksheet computer applications and realistic interpretation of output. The course is designed to acquaint the student with issues in methods of data							
analysis in the real world. Examples arise from finance, marketing and other functional areas of business research.  Directorate of Sustainable Management								
MSSM	500	Business Studies and Global Challenges	3	0	3			
strategy, i complex g	manager Jobal ch	es the learner with detailed and some critical knowledge and nent, marketing, accounting financial and risk assessment fo allenges that have an impact on businesses across a wide ar apply detailed knowledge to support solving complex busine	r busin ray of s	ess sus sectors	stainabi . At the	lity. The course will provide an oversight on end of this course the learner will be able to		
MSSM	510	Responsible Sustainable Management	3	0	3			
will provid organizati	le a fram on and a	es the learner with critical knowledge and understanding to lework that guides sustainable development in businesses. T ipply cooperate social responsibility (CSR). At the end of this tion of business existence that leads to responsible decision	he lear course	ner wil	ll gain k	nowledge on responsible behaviour in		
MSSM	511	Governance and Executive Leadership	3	0	3			
The cours challenges	e will pro s. The le	es the learner with professional level of practicing different leavide a framework to develop an effective governance struct arner will gain critical knowledge of conceptual governance as reship practices and communicate governance issues to supp	ure wit	h appli siness a	cation o	of thought leadership to fit with the global At the end of this course the learner will be		
MSSM	512	Strategic and Innovation Management	3	0	3			
This cours	This course provides the learner with critical knowledge and understanding of principle, practices, and tools to develop an innovative strategy. This course will provide core concepts to develop, evaluate and implement strategy in terms of effectiveness and innovation. At the end of this course the learner will be able to use combination of approaches and demonstrate innovative insights for developing a strategy for sustainable businesses in the challenging world focusing on risk analysis and strategic level decision making.							
MSSM	513	Human Resources and Talent Management	3	0	3			
practices to managementhe organi	This course provides the learner with overview of theories and concepts related to organizational behaviour and human resources management practices to be applied to support resilience management in competitive global challenges. The course will provide additional dimension of career management including analysis of advancement and competence development to design talent and career pathways for future leadership within the organization. At the end of this course the learner will be able to design professional human resources policies and procedures that guides to manage human capital in businesses.							
MSSM	514	Organizational Digital Transformation	3	0	3	MSSM 512		
digitalized security m	This course provides the learner with critical knowledge and understanding to develop digital strategy to transform an organization to be digitalized in terms of governance and structure. The learner will develop a digital strategy and design governance and level of authorities with security measures to ensure sustainable reporting for businesses that leads to decision making. At the end of this course the learner will be able to judge on different frameworks to transform an organization to be digitalized.							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Directorate of Sustainab	le Man	agem	ent			
MSSM	515	Luxury Brands and Creativity	3	0	3			
of business	The learner will gain knowledge and understanding in relation to luxury brand management. The learner will be able to link creativity to the core of business by covering goal orientation. At the end of the course the learner will be required to identify innovative ideas towards sustainable management that drives luxury branding which focus on market positioning and segmentation at a strategic level.							
MSSM	516	International Luxury Marketing Management	3	0	3	MSSM 515		
The learner will be able to apply professional concepts to develop a marketing strategy for luxury branding focused on environmental and organizational factors. At the end of this course the learner will be able to develop a detailed marketing plan for international luxury organizations focused on the organization objective. The learner will be also able to provide implementation targets and measures to drive the activation of the plan.								
MSSM	517	Business Data Analytics and Sustainability	2	2	3			
sustainable analytics to	This course will provide the learners with dimensions of responsible businesses using business data analytics. The learner will be familiarized with sustainable business models that leads to cooperate responsibility to stakeholders and reporting. The learner will be able to use different data analytics tools to support decision making for sustainable businesses. At the end of this course the learner will be able to provide judgment on businesses sustainable performance and suggest recommendations by using business data analytics followed by ethical frameworks.							
MSSM	518	Life Cycle Assessment in Circular Economy	3	0	3	MSSM 517		
inventory a economy.	analysis At the e	es the learner with critical knowledge and understanding rel and impact assessment. The course will provide real-life cas nd of this course the learner will be able to explain life cycle	e study assess	to ena	able lea and ider	rners to critically analyse life cycles for circular ntify ways to create an environmental impact.		
MSSM	L	Research Methodology and Ethics	2	2	3	Completion of at least 9 credits		
methods. some prac	The cour tical soft	es the learner with an overview of the research methodologing will also provide ethical standards to be applied while contware applications to support data analysis. At the end of this esearch outcomes with assurance of application of ethical states.	nductin s cours	g diffe se the l	rent typ	es of research methods. The course will cover		
MSSM	599	Dissertation in Sustainable Management	0	24	12	MSSM 558 AND Completion of at least 21 credits		
supervised learner wil	I to deve	e expected to conduct a structured and in-depth research in elop a critical literature review leading to a dissertation with ected to demonstrate intellectual discourse involving probler t both theoretical and practical level.	specific	resear	rch aim	and development of conceptual concepts. The		
		Management & M	arketi	ng				
ETHC	391	Ethics and Professional Practice in Business	3	0	3	Completion of at least 66 credits		
ethical issustudies, the problems to ethical reasonable.	ues and e course that com soning a	es students with a theoretical foundation of what Business E dilemmas facing business practitioners in real world contexts attempts to inculcate into students key ethical principles, si amonly arise in the business world. The course provides amp as essential components of a manager's decision-making pro des a comprehensive overview of corporate social responsib	involv andard le oppo cess. T	ring mu ds and ortunity	ıltiple st ways in , for stu	cakeholders. In addition, through ample case which business practitioners address moral udents to hone skills in critical thinking and		
INTR	425	BSMM Internship	0	12	6	Completion of at least 90 credits		
INTR	469	BSMM Internship	0	0	3	Completion of at least 90 credits		
students to sectors, i.e provide gu	This course focuses on business internships that add a significant real-world component to students' employability. It provides the opportunity for students to earn academic credit while gaining valuable work experience under the mentorship of a business professional in different industry sectors, i.e. services and manufacturing. An individualised assignment arranged with students and different business organisations to practically provide guided experience in their field. Students' internship experiences are assessed via written internship reports that will be evaluated by the students' organisation supervisor and an assigned academic supervisor.							
MAGT		Fundamentals of Management	3	0	3			
functions,	process,	nagement theory and practice. Introducing students to the and system within an action frame of reference. Manageria odels and strategic management.						
MAGT	221	Organization & Management	3	0	3			
MAGT	240	Our attack of Arrahada for Bud	_		2	CTAT 202		
MAGT	310	Quantitative Analysis for Business	3 deboet	0	3	STAT 202		
analysis, d applicable	ecision t decision e analys	nagerial decision analysis using quantitative tools and sprea tables and trees, linear programming, sensitivity analysis, classing support software and EXCEL Solver to solve mathematical asis and tools rather than on mathematical theory. Application ement.	ssical o	optimiz siness (	ation ar decision	nd statistical techniques. Extensive use of models. Emphasis is on applications of		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Management & M	arketi	ng					
MAGT	321	Organizational Behaviour	3	0	3	MAGT 121			
social scie group beh organizatio such topic	An introduction to the management process and examination of organizational behavior from a social science and behavioral perspective. Focus on understanding and analyzing individual and group behavior in organizations and how leaders implement strategy to impact people, policy and organizational culture. Students learn to integrate theory and concepts with current business practices and management issues. Included are such topics as: job design, perception, communication, decision making, motivation, groups, leadership, and organizational change and effectiveness.								
MAGT	322	Production & Operations Management	3	0	3	ITCS 101 AND STAT 101			
process de	The course includes the strategic, tactical, and operational issues that arise in the management of production and service operations; product and process design, facilities planning, quality management, materials management, operations planning and scheduling, and emerging technologies in production and service management.								
MAGT	323	Human Resource Management	3	0	3	MAGT 121			
specific, it recruitmen	discussent and se	n resource management theory. The course focuses on the es the conceptual definitions and their application to busines election, training and development, performance manageme key topics for HRM learners to understand.	s settin	gs. Is	sues of	job analysis, forecasting employee needs,			
MAGT	324	Organizational Behavior & Leadership Development	3	0	3	MAGT 323			
analyzing and conce	individua pts with	ntroduction to the principles of Organization Behavior (OB) a al and group behavior in organizations and how leaders impl current business practices and management issues. Include otion, communication, leadership, teamwork and interperson	ement : d are s	strateg uch to	y to im	pact people. Students learn to integrate theory			
MAGT	325	Strategic Leadership and Change Management	3	0	3	MAGT 324			
effectively	This Course enables students to learn strategic leadership best practices and their application to the change management process in order to effectively lead business organizations. Key topic areas in strategic leadership and change management are covered such as: Understanding and diagnosing the need for change, leadership strategy, leading and enabling change, and managing the change process.								
MAGT	331	Business Simulation	3	0	3	STAT 202			
		ops business simulation models using the EXCEL environmen span marketing, finance, operations and management. Stuc							
MAGT	412	International Business	3	0	3	ECON 102 AND Completion of at least 90 credits			
in the con	text of e economi	es a comprehensive overview of the environment of internatemerging markets. Major topics include basic concepts of work theory and international business operations as well as strail market.	rld trad	e and i	investm	ent problems, the nature of international			
MAGT	413	Management & Leadership Development	3	0	3				
MAGT	414	Quality Management	3	0	3	STAT 202			
theories to required to	o enable o derive heir qua	ovide an oversight on the Management of Quality Operation: the student to apply quality evaluations and measures. As p quality management systems will be provided. Once student lity management systems and analyze their status, and provem.	art of t	his cou essfully	irse, ma comple	anagement and leadership characteristics ete this course, they must be able to critically			
MAGT	416	Project Management	3	0	3	MAGT 322			
Topics inc	lude: pro	planning and controlling of projects and provides practical kr oject life cycle, work breakdown structure and Gantt charts, ts are applied through projects and tutorials using project ma	networ	k diagr	ams, so				
MAGT	423	Strategic Management	3	0	3	MAGT 121 AND Completion of at least 90 credits			
scope of o	peration	es an introduction to strategic planning covering key concepts. Topics such as: environmental scanning, strategy formula keting, personnel, finance, and other areas are covered.							
MAGT	424	Entrepreneurship & Innovation	3	0	3	MAKT 201 AND Completion of at least 90 credits			
entreprend responsibi	The course provides an overall view about major schools of entrepreneurship thought and the process approaches to the study of entrepreneurship. It also covers issues related to individuals and corporate entrepreneurial mint-set beside the concept of ethics and social responsibility. Further to that, the course will expose the students to the processes of creativity and innovation, major types of innovation, method to initiate new ventures, development of new ventures business plan and strategic planning for entrepreneurial initiatives.								

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Management & Marketing  MAGT 430 Supply Chain Management 3 0 3 MAGT 322  Analysis of the entire flow of information, material, and services from suppliers through factories and warehouses to the end custome logistics, supplier selection and inventory management by case studies, optimization and simulation.	er including						
Analysis of the entire flow of information, material, and services from suppliers through factories and warehouses to the end custome logistics, supplier selection and inventory management by case studies, optimization and simulation.	er including						
logistics, supplier selection and inventory management by case studies, optimization and simulation.	er including						
MAGT 431 Advanced Spreadsheet Modeling For Managers 3 0 3 MAGT 310 AND MAGT 3	331						
Spreadsheets have become a popular model-building environment for managers. Add-ins and enhancements to EXCEL have made powerful decision-making tools available to the manager. This course covers how to use the spreadsheet to develop and utilize some of these decision-making aids. Visual Basic for EXCEL allows the nonprogrammer to create modules for functions, subroutines and procedures. Topics include: forecasting (both regression and time series), decision-making under uncertainty and decision trees, using SOLVER for optimization and probabilistic simulation using @RISK.							
MAGT 499 Project in Management 0 6 3 BFRM 498 AND ETHC 3	391						
A structured pre-approved project in management or marketing ordinarily involving (1) research on a particular topic in management reporting on field-work in a managerial organization.	or (2)						
MAKT         201         Principles of Marketing         3         0         3         MAGT 121							
This course serves as an introduction to marketing in general, and the marketing process in particular. Students will develop a thorou understanding of the marketing concept/process, the marketplace and the differences between consumer and business markets. The learn how to design a customer-driven marketing strategy which employs the marketing mix, whilst keeping pace with digital age delinked to marketing activities.	y will also						
MAKT 220 Marketing Management I 3 0 3							
MAKT 210 Consumer Polyviour							
MAKT 310 Consumer Behaviour 3 0 3 MAKT 201  This course covers a comprehensive study of behavior models and concepts to help understand, evaluate, and predict consumer behavior in terms of marketing implications. Determinants of consumer behavior are explored to gain understanding of the complex forces as they affect the market place. The course's emphasis is on the understanding of the processes that influence the acquisition, consumption, and disposition of consumer goods and services.							
MAKT   320   Marketing of Financial Services   3   0   3   MAKT 201							
A comprehensive study of key issues that surround the marketing of financial services focusing on how banks and other financial inst employ marketing practices to ensure sustained and profitable growth utilizing such techniques such as: product positioning, segmen relationship management and retention. The course also provides insight into launch of innovative financial products and delves into ethical framework in which financial service marketing is conducted.	tation, and						
MAKT         321         Marketing Research         3         0         3         STAT 202							
This course is an introductory analysis of the fundamental of the marketing research focusing on different types of marketing research and quantitative) as well as on complex issues at each stage of the research process. This course covers research used in marketing making with primary emphasis on methods and techniques used in collecting, processing and utilization of information. Topics includesign, sources of information, questionnaire design, sampling, data collection and analysis.	decision						
MAKT         322         Sales Management         3         0         3         MAKT 201							
A comprehensive study of selling and the field of sales management that help to understand comprehensively the selling process, str sales management, the sales organizations' structure, profiling and recruiting, selecting and hiring sales people. The course is intended provide through understanding of the process of developing and reinforcing sales force training programs including motivation and confidence. In addition the course should provide the student with the capability to understand and implement the strategic position process, leadership styles, Forecasting and budgeting, and evaluation of sales force performance.	ed also to ompensation						
MAKT 331 Industrial Marketing 3 0 3 MAKT 201							
Focusing on methods of marketing decision-making in industrial, government and high-tech markets, planning and implementing business marketing strategies with an emphasis on segmenting markets, managing channel relationships, and creating customer value continuous improvement and re-engineering receives center stage. This course emphasizes the unique nature of marketing high tech application of the basic elements of marketing strategy – market segmentation and targeting, marketing mix elements – to the contest technology goods and services. Students develop effective strategic, marketing plans for high technology products.	ie through inology in its						
MAKT332Advertising & Promotions Management303MAKT 201							
This course is a comprehensive survey of basic principles of advertising and promotion. The course will include the study of promotion and theories and the effects of advertising and promotion in the firm, the economy and society. The course covers advertising history of advertising on society, and ethical and regulatory issues. The process of creating and placing advertising is explored including advertise, budgeting, media planning and mix, creative objectives and strategy, copy execution and production, and copy testing.	, the impact						
MAKT 412 International Marketing 3 0 3 MAKT 201 AND Completion of credits  This course examines the impact of economic, cultural, political, legal and other environmental influences on international marketing.							

context, how to identify and analyze worldwide marketing opportunities, and examine product, pricing, distribution and promotion strategies will be discussed. Students are expected to read current periodicals and journals to keep abreast of current international developments. Problems of distribution and marketing in foreign countries are covered including foreign markets surveys, promotion by government and private agencies, structural organization, marketing channels, foreign operations, foreign licensing, selection of marketing policies, techniques and financial instruments of foreign trade.

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	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Management & M	arketi	ng		
MAKT	416	Service Marketing	3	0	3	MAKT 310
service ma course ide of planning	ganizatio arketing Intifies b g, organ	ons require a distinctive approach to marketing strategy- bot of such commercially diverse enterprises as transportation cest practices in the area of marketing management and servizing, and implementing the marketing effort in service orga attention is paid to service positioning in the marketplace a	ompan ice qua nization	ies, ho ality the ns, the	spitals, ough a course	and execution. Focusing on non-financial consultancies, and educational institutions, this case-study approach. Focusing on the process explores the distinctive aspects of service
MAKT	421	Marketing Strategy	3	0	3	MAKT 201 AND Completion of at least 90 credits
encountere	ed by se	a fundamental understanding of the marketing strategy plar nior marketing managers, marketing opportunity assessmen omotion, and distribution.				
MAKT	422	Entrepreneurship	3	0	3	
MAKT	423	Digital and Social Media Marketing	3	0	3	MAKT 201
This course exposes students to the constantly changing nature of digital and social media marketing. It explores the origins of the discipline in the context of how the marketing practices of todays have transformed with the introduction and advancements of social and digital technologies, which in turn have empowered consumers with an emphasis on both opportunities and risk to organisations. The course examines the leading edge of technology and practice, and how these technologies impact a whole range of other disciplines, such as traditional marketing, management, international business, and business strategy. It exposes students to both theoretical and practical knowledge needed to develop a sound digital marketing strategy utilising various digital and social media marketing concepts and tools.						
MAKT	424	New Product Development	3	0	3	MAKT 321 AND Completion of at least 90 credits
tachniquae	s used to					icts as well as the cutting edge tools and
		o develop new products. The first part of the course focuses se second part examines techniques for managing different second part examines for managing different se	on nev	v prodi	ıct deve	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90
product's of launch.  MAKT  Fundamen marketing	425 atal under manage	o develop new products. The first part of the course focuses se second part examines techniques for managing different second part examines for managing different se	on new stages of	y produ of a pro 0 marke	act development de	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  nagement problems encountered by senior
product's of launch. MAKT	425 atal under manage	o develop new products. The first part of the course focuses se second part examines techniques for managing different second part examines for	on new stages of	v produ of a pro 0 marke	act development de	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  nagement problems encountered by senior
product's claunch.  MAKT  Fundamen marketing promotion  MAKT  This cours processes, discussions experience will be add	425  atal under manage, and dis 431  e examin, CRM ides and present a high dressed i	Strategic Marketing Management  erstanding of the marketing strategy planning process within ers, marketing opportunity assessment, segmentation, composition.	firms, etitive    3  gic procwth and mers/hion. The	marker oosition  cess fod reter ousehoe pitfal	act developments of the second	MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  maximize profit. CRM ten organizations that invest heavily in CRM ten organizations that invest heavily in CRM ten addition to the CRM strategic planning, in In addition to the CRM strategic planning,
product's claunch.  MAKT  Fundamen marketing promotion MAKT  This cours processes, discussion experience will be add	425 htal under manage, and dis 431 e examin, CRM ides and prese a high dressed is expert pre	o develop new products. The first part of the course focuses are second part examines techniques for managing different second part examines the second part examines the second part examines the second part of the marketing strategy planning process within the course are second part examines the second part of the second	firms, etitive    3  gic procwth and mers/hion. The	marker oosition  cess fod reter ousehoe pitfal	act developments of the second	MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  maximize profit. CRM ten organizations that invest heavily in CRM ten organizations that invest heavily in CRM ten addition to the CRM strategic planning, in In addition to the CRM strategic planning,
product's of launch.  MAKT  Fundamen marketing promotion MAKT  This course processes, discussions experience will be adostudent ex MAKT  A structure	425  atal under manager, and distance examinater, CRM ides and present a high dressed in the present and present and present present appears and present and prese	strategic Marketing Management  Strategic Marketing Management, segmentation, composition  Customer Relationship Management  Customer Relationship Management  Strategic Marketing opportunity assessment, segmentation, composition  Customer Relationship Management  Strategic Marketing opportunity assessment, segmentation, acquisition group opects will address better of identification, acquisition group opposition oppos	firms, etitive    3  gic proc wth an mers/h ion. The f a CRI nplish ti 0	or production of a production	3 ting manning and r organition of olds. Off ls as we egic pla rse objects	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  zations. Composed of people, technology, and desired customers to maximize profit. CRM ten organizations that invest heavily in CRM ell as the completion of a CRM strategic planning, actives.  BFRM 498 AND ETHC 391
product's of launch.  MAKT  Fundamen marketing promotion MAKT  This course processes, discussions experience will be adostudent ex MAKT  A structure	425  atal under manager, and distance examinater, CRM ides and present a high dressed in the present and present and present present appears and present and prese	strategic Marketing Management  Strategic Marketing Management, segmentation, composition  Customer Relationship Management  Customer Relationship Management  Strategic Marketing opportunity assessment, segmentation, composition  Customer Relationship Management  Strategic Marketing opportunity assessment, segmentation, acquisition group opects will address better of identification, acquisition group opposition oppos	firms, etitive particular of a CRI pplish to a number of a	marker oosition  o  cess food reter ousehoe pitfal strathe cou	act developments of the control of t	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  zations. Composed of people, technology, and desired customers to maximize profit. CRM ten organizations that invest heavily in CRM ell as the completion of a CRM strategic planning, actives.  BFRM 498 AND ETHC 391
product's of launch.  MAKT  Fundamen marketing promotion MAKT  This course processes, discussions experience will be adostudent extended to the student extended to the studen	425  atal under manager, and distance examinater, CRM ides and present a high dressed in the present and present and present present appears and present and prese	develop new products. The first part of the course focuses be second part examines techniques for managing different second part examines the second process within the second process will address both organizational customers and consufailure rate owing to the flaws in CRM strategy implementation depth through the course, culminating in the completion of sentations and some hand-on analysis will be used to accomproject In Marketing proved project in marketing ordinarily involving (1) researcization.	firms, etitive particular of a CRI pplish to a number of a	marker oosition  o  cess food reter ousehoe pitfal strathe cou	act developments of the control of t	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  zations. Composed of people, technology, and desired customers to maximize profit. CRM ten organizations that invest heavily in CRM ell as the completion of a CRM strategic planning, actives.  BFRM 498 AND ETHC 391
product's of launch.  MAKT  Fundamen marketing promotion.  MAKT  This course processes, discussions experience will be adostudent ex MAKT  A structure a marketing  BFRM  The main of propose sy	425  atal under manage, and dis 431  e examir, CRM idis and pre a high dressed ixpert pre 499  ed pre-ang organ  498  objective ystematic	Strategic Marketing Management  Strategic Marketing opportunity assessment, segmentation, composition  Customer Relationship Management  Strategic Marketing Management  Customer Relationship Management  Strategic Marketing Management  Strategic Marketing management  Strategic Marketing opportunity assessment, segmentation, composition  Strategic Marketing Management  Customer Relationship Management  Strategic Marketing opportunity assessment, segmentation, composition  Strategic Marketing Process within assessment p	firms, etitive particles of the second secon	marker oosition  o cess food reter ousehoe pitfal M strathe could be particulated as well as w	act developments of the second	elopment strategies at different stages of development from generation to market  MAKT 201 AND Completion of at least 90 credits  magement problems encountered by senior dintegration of product / service, price,  MAKT 310 AND Completion of at least 66 credits  zations. Composed of people, technology, and desired customers to maximize profit. CRM ten organizations that invest heavily in CRM ell as the completion of a CRM strategic plan in. In addition to the CRM strategic planning, ectives.  BFRM 498 AND ETHC 391  c in marketing or (2) reporting on field-work in  STAT 202 AND Completion of at least 90 credits  duct scientific research and to formulate and

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Course	Code	Course Title	Lec	Lab	Cr	Prer	equisite
		Management Informa	tion S	ystem	s		
INTR	468	BSMIS Internship	0	0	3	Completion of	at least 90 credits
In this course, student follow a training program in an organization related to their specialization. The program aims to provide students with first-hand experience of the day-to-day functions, duties, and operations and to integrate what they have learnt in the classroom with the competencies required in the workplace. In today's turbulent economic environment, a country workforce is increasingly pivotal to business success. Stemmed from the desire and sense of responsibility that Ahlia University has against the society and their own students, and as part of their vision, of being leaders in the market of higher education, they do understand the need to invest in their capital made of partially their students in order to equip the market with talented workforce. Based on this INTR 424 course was introduced representing a structured opportunity to incorporate academic, professional and personal skill development which enables the student to gain a planned and directed learning experience. It enables the student to integrate knowledge gained through their classroom learning with the competencies made available through actual experience in a professional setting. The internship programme requires a minimum of 240 hours of work at the internship worksite. Students will receive academic credit after a successful completion of the programme. The numbers of credits that are earned by the student as a result of successful completion of the internship programme are 6 credits.							
ITMA	201	Management Information Systems	3	0	3	MA	GT 121
information computer i	n theory interacti	decision-making process and how information is used for de . Essential practices for providing viable information to the con. Societal and ethical issues related to information system.	organiz s use.	ation. 1	Inform		
ITMA	221	Introduction to E-Commerce	3	0	3		
ITMA	304	Business Data Analytics	3	0	3	STA	AT 202
learn principles, techniques, and tools they need to solve various facets of data science training, including data collection and integration, exploratory data analysis, predictive modeling, descriptive modeling, data product development, assessment, and effective communication. The focus will be on breadth rather than depth in the treatment of these topics, and emphasis will be placed on the integration and synthesis of concepts and their application to problem solving. Real data sets from a variety of disciplines will be used to make learning contextual.  ITMA 305 Information System Security 3 0 3 ITMS 205  This Course aims at understanding concepts, theories, methodologies, and techniques of Information Systems Security, in both management aspect and technical aspect. The course also exposes students to understand of various types of security incidents and attacks, and learn methods to prevent, detect and react incidents and attacks. Students will also learn basics of application of cryptography which are one of the key technologies to implement security functions. The course also imparts knowledge of internet services, vulnerabilities of computer networks and							
		tecting data and networks, symmetric and asymmetric crypt		i –	1	1	
ITMA	310	Entrepreneurship and Digital Innovation	3	0	3		AND ITMA 201
entreprene	eur's pos	ses topics related to the development and management of t sition and personality, business strategy, team building and r sss and marketing plan, legal issues such as intellectual prop	manag	ement,	digita	I creative goods, marke	t assessment and
ITMA	321	E-System Technologies	3	0	3		CS 214
		es some of the technologies and infrastructures required to a simpact consumer-business, business-business and intra-ord					he course explores how
ITMA	322	Database Management Systems	2	2	3		MA 201
	, concui	the entire scope of database management systems, especia rency control, recovery, distributed transactions, database s				(query processing and o	optimization, transaction
ITMA	323	Management Information Systems II	3	0	3	ITI	MA 201
This course develops a technology management perspective about information technology, asking and answering the question: how do we make the best technology decisions in the context of a dynamic business environment? The course is about technology values and risks, and the strategic importance of effective enterprise decision making about information and information technology infrastructure. Of particular focus is the business aspect of technology decision-making, using case studies and in-class presentations from industry executives and entrepreneurs. Included is technology project analysis, technology leadership considerations, infrastructure management and architectures, electronic commerce issues, the design and implementation of computer-based information systems with emphasis on database and transaction aspects, the basics of database management, architecture of relevant database management systems, design and implementation strategies.  ITMA 326 Business Cloud Computing 3 0 3 ECTE 201 AND ITMS 325							
fundament service ma processes,	ITMA 326 Business Cloud Computing 3 0 3 ECTE 201 AND ITMS 325 This Course covers how to build a cloud infrastructure based on a cloud computing reference model. The reference model includes five undamental layers, namely, physical, virtual, control, and service and three cross-layer functions, namely business continuity, security, and service management for building a cloud infrastructure. For each layer and function, this course covers the comprising technologies, components, rocesses, and mechanisms. This course takes an open approach to describe concepts and technologies. Product examples are included to einforce the concepts and technologies learnt in this course.						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Management Informa	tion S	ystem	s	
ITMA	330	Knowledge Management	3	0	3	ITMA 201
course cov	ers the d disser	ement spans the gamut of knowledge sharing, codification, principal processes in knowledge management and undersonination of expertise and knowledge. Additionally, students	ores th	e role o	of IT sys	stems that support the creation, capture,
ITMA	401	E-Commerce	3	0	3	ITCS 101
and global ousiness s oetween o exchange	context trategy organizat informat	ts a survey of consumer and business-to-business electronics connecting individuals, businesses, governments, and othe and the development and architecture of e-business solutionional strategy and networked information techniques. The coion and initiate transactions. Students gain extensive hands pth exploration of the seven design elements of the custon	er organs and course values	nization their te will cov perience	ns to ea echnical er how e tacklir	ch other. It provides an introduction to e- components that focuses on the linkage businesses and consumers use the Internet to ng e-commerce problem- sets in a series of
ITMA	411	System Analysis & Design	3	0	3	ITCS 323
ife cycle fi modeling, are introdi	rom pro system uced. St	uces students to the concepts and principles of systems and ect identification through project planning and managemer architecture and security, interface design, and implementa udents will learn to use an upper level CASE (computer-aidens ans analysis and design project.	t, requ tion an	iremen d chan	ts identi ge mana	fication and specification, process and data agement. Object-oriented analysis techniques
ITMA	412	Managing Enterprise Systems	3	0	3	ITMA 322
and techni From a tec students e organizatio	ical chall chnologi employ b ons.	eb-enabled computing environment that provides information enges in implementing enterprise systems and managing a cal view, students evaluate enterprise system to assess the usiness cases to develop an understanding of the process	n orgar r functi f imple	ization onal ca mentin	with su pabilitie g and u	ch an interdependent, connected system. es and limitations. From a managerial view, sing enterprise systems effectively in
ITMA	414	Business Intelligence ce (BI) and its components are included in this course. The	3	0	3	ITMA 304
componen data warel operationa mining tec	its and fi housing, al data c chniques	sets into intelligence that leads to strategic and tactical buunctionality of information systems are also introduced in the predictive reporting, data visualization, and ethical and legan be used to build data warehouses, which can then be us and analytics.	is cour al conc ed to g	se. Dat erns ar ain nev	a qualit e all cov v insight	y and validity, data privacy and protection, vered by BI technologies. It looks at how ts into organizational operations using data
ITMA	416	Strategic Information Systems Project Management	3	0	3	MAGT 121 AND ETHC 391
orojects, a ntroduces nanageria	s well a the fun al aspect	ents can learn the fundamentals of project management, in sunderstanding issues in planning and implementing strate damentals of five project management areas: integration, so and challenges facing strategic management, alignment o ols and techniques, and the comprehensive frameworks for	gic Info cope, t f IS an	rmatio ime, co d busin	n Syster st, and ess stra	ns within the organization. The course quality. The course also covers the main tegy, strategic concepts for IT and business,
ITMA	418	Artificial Intelligence Applications in Business	3	0	3	ITMA 304
ntelligent	agents,	the fundamentals of artificial intelligence (AI) and how to a basic principles of searching, reasoning, and planning, exp by logic, and applications of AI techniques to solve various to	ert syst	ems, a	dvanced	I techniques such as genetic algorithms, neural
ITMA	423	Information Systems Auditing	3	0	3	ITMA 416 AND ITMS 205
S audit st priorities a	andards	pes the principles and procedures of information technology and guidelines, forms of audits to ensure that processes are rols related to Information Systems and audit preparation, a growth and maintenance of the Business Continuity Plan a	e secui audit pr	ed and oject m	l regulat nanagen	ed, risk management methods, monitoring
ITMA	427	e-Government Concepts and Implementation	3	0	3	ITMA 201 AND ITMS 325
ndministra of e-gover governme	ntion. E-on nment, and it	es a socio-technical perspective on e-government and discu- povernment at different levels, from policy and planning to and problems and developments in the field are among the s increasingly integral role in many government processes a roment, means that it is no longer perceived as just a techr	manage topics and act	ement, discuss vities,	implemed. The	entation, and assessment, theoretical models course also covers the rise of digital
ITMA	499	Project in ITMA	0	6	3	BFRM 498 AND ETHC 391
		approved project in ITMA ordinarily involving (1) research o acts in ITMA ordinarily encompass MIS, data-base managen				
		COLLEGE OF ENG	NEER	ING		
		Computer Engi	neerin	9		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Computer Engin	eering			
		Mechanics that is the study of the way matter and forces in				er.
1		c (concerns itself with forces when no change in momentum rces and matter when a change in momentum does occur),		,, ,		y of motion without regard to the forces
ECCE	121	Circuits	2	2	3	ECCE 101 OR PHYS 101
		s to introduce principles of circuits including electric charges				
		urrent circuits, Kirchoff's rules, magnetic field and flux, amp rcuit. This course in addition to the theory, introduces the s				
ECCE	201	Electric Circuits	2	2	3	MATH 102 AND PHYS 102
Power cale Network t	culations, heorems	es electrical circuit analyses. It includes the following topics: Resistive circuits: voltage and current divider rules. Depend Thevenin's Norton's, Source transformation, Superposition, Aphasors, impedance & admittance, AC mesh & nodal analysis.	dent so , Maxim	urces. ium po	Circuit a	analysis techniques: Nodal and Mesh analysis. nsfer. Transient analysis of RC, RL and RLC
ECCE	203	Digital Logic	2	2	3	ITCS 101
logic circu	its analys	ices concepts and ideas of Digital Logic Design. It covers: n sis, combinational network design). MSI Integrated circuits i action to basic PLDs, CPLDs, and FPGAs. Introduction to Sta	n comb	ination	al netw	orks design, and sequential circuits analysis
ECCE	204	MATLAB & Simulink	2	2	3	MATH 102 AND ITCS 122
Include ar Students of	This course introduces students to MATLAB, a powerful engineering programming environment, and its companion application, Simulink. Topics Include array manipulations, control-flow, script and function files, 2-D plotting and editing, and system modeling and simulation using Simulink. Students gain insights into the useful capabilities of MATLAB and Simulink for common engineering applications such as signal processing & communication, control design, image processing, data analysis and visualization.					
ECCE	221	Electronic Circuits	2	2	3	ECCE 201
concepts,	rectifier	ices Analog electronics devices and some relevant concepts and wave shaping circuits), Bipolar Junction Transistors ( BJ erational Amplifiers and active filters. TTL and CMOS Logic I	T's) , F	ield Eff	fect Tra	nsistors ( JFET, MOSFET) , DC biasing VI
ECCE	223	Data Structures	2	2	3	ITCS 201
		ices common Data structures and their related algorithms. I nary Trees, Graphs, and their implementations. Related Algo				
ECCE	300	Introduction to MATLAB Programming	2	2	3	MATH 202
lab-oriente and editin	ed and cog, and al	ices students to MATLAB language and its problem solving of overs topics such as array manipulations, control-flow, script so some advanced data structures. The course also introduce neering problem modelling and simulation.	and fu	nction	files, 2	-D plotting
ECCE	303	Computer Architecture and Organization	2	2	3	ECCE 203
Complex a	and Redu design ;	ices the organization and architecture of computer systems ced Instruction sets computers ( CISC and RISC) ; address Control Unit, Pipelining , Microprogramming, Memory Hiera	ing mod	des; re	gister t	ransfer notation; performance evaluation and
ECCE	304	Introduction to Control Systems	3	0	3	ECCE 300
control the	This course introduces control systems and their physical system elements representation. It covers classical control theory of single-input/ single-output, continuous systems, time domain analysis, performance specifications and stability. The course also introduces students to basic design techniques of feedback control					
ECCE	323	Microprocessors	2	2	3	ECCE 303
architectu and Addre	re and O essing mo	cory course to Microprocessors architecture and programming anization course (ECCE 303). Topics include Assembly landers, Memory Interfacing and synchronization, I/O mapping arface devices and Application Examples.	guage p	orograi	mming,	Microprocessor architecture, Instruction type
ECCE		Principles of Control Systems	2	2	3	ECTE 224 AND ( MATH 202 OR MATH 205 )
control sys	stems. Ti stems: R	ces the theory of LTI control Systems. Topics include: Revieransfer functions, Signal flow graphs. State space analysis. South criterion, Root locus, Frequency response methods, Ny included in the control. Control systems applications with MATLAB are in	Fransier quist st	nt resp ability	onse of criterio	first and second order systems. Stability of n. Compensation techniques. Z transform and
ECCE	326	Digital Logic Design	1 2	2	3	ECCE 203

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite	
		Computer Engin	eering				
combination description simulation	This course provides a modern introduction to logic design and the basic building blocks used in digital systems. Topics include modular design of combinational and sequential circuits, finite state machine design, control and datapath design, modern digital design techniques using hardware description languages and programmable logic devices (FPGA, CPLD), introduction to VHDL design styles (data flow, behavioral, structural), simulation and synthesis of digital systems with VHDL. Students also learn to use industrial EDA tools such as XILINIX and ModelSim for VHDL synthesis and simulation.						
ECCE	333	Windows Server Environment (MCSE - 1)	2	2	3	ECTE 302 OR ECTE 201	
This course provides students with the knowledge and skills that are required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data in a Microsoft Windows Server 2003 environment. This is the first course in the Systems Administrator and Systems Engineer tracks for Windows Server 2003 and serves as the entry point for other courses in the Windows Server 2003 curriculum.							
ECCE	334	Windows Server - Network Infrastructure (MCSE - 2)	2	2	3	ECCE 333	
Protocol ([	DHCP) a	es that a candidate has a broad base understanding of mana nd a thorough understanding of Domain Name System (DNS nd the knowledge and skills necessary to allow, manage and	), Wind	lows Ir	nternet	Naming Service (WINS), Internet Protocol	
ECCE	401	Computer Security	3	0	3	ECTE 201	
confidentia authentica	ality; the ation, acc	rns with the protection of computer systems and their data figure focus is on threats of a malicious nature rather than accidencess control, database security, malicious software, denial of ity and emerging security issues.	ntal. To	pics in	clude:	Computer security overview, cryptography,	
ECCE	402	Logic Programming and Knowledge Representative	3	0	3	ITCS 303	
that alway and machi students o are also di	This course examines intelligent systems which sense the environment, make decision and then act in appropriate ways. The knowledge necessary to understand how the system works is introduced in segments that always relate back to the basic system. the course also introduces Boolean logic, theory of computation and machine learning. Hands-on practice on some logical programming languages is included to familiarize students on implementing such techniques. Applications in natural languages, computer vision and robotics are also discussed.						
ECCE		Embedded Systems	2	2	3	ECCE 323	
systems. I Software a	t covers and hard	on the knowledge gained form the Microprocessor courses ( Microcontroller hardware architecture. High level programm ware tradeoffs. Memory interfacing. I/O interfacing techniquigital and analog I/O, timers and interruptors.	ing and	l real t	ime ope	erating systems for embedded systems.	
ECCE	413	Internet of Things	2	2	3	ECCE 303 AND ECTE 329	
products a Use pytho to perform	and servi n to prog n more o infrastru	the basic building blocks of the Internet of Things and deve ces. Students will be able to use sensors and an Arduino mic gram a Single Board Computer (Raspberry Pi) complex embedded program. Learn the principal application acture for IoT: LoRa-Wan, 6LoWPAN, 5G and SigFox.	croconti	roller t	o read	data from physical world and control actuators.	
This cours	e provid orithms, Security,	es introduction to both theory and practice of data security. hash functions and digital signatures. The practice part covers SSL/TLS, and possibly others. This course is self-contained:	The the	eory pa ortant	art inclu data se	des conventional crypto-algorithms, public-key curity tools and applications: Kerberos, SSH,	
ECCE	424	Cyber Security	2	2	3	STAT 302	
network se	ecurity a	ver the most important concepts of cyber security, including nd intrusion detection. Learners would gain knowledge of vaprinciples, security mechanisms, web security, policies, foren	rious c	yber se	ecurity 1	terminologies, technologies, protocols, threat	
ECCE	425	Engineering Management	3	0	3	Completion of at least 90 credits	
effective s transforma progress in of the high	colution. ation of a nto some nly comp	ices advanced engineering management with professional er In addition, an engineer must make things happen, which ma a technical solution to reality. Professional Engineers are unli e management activity. Thus, there is a need to bridge the g petitive engineering industry using a toolkit for future engineer	ianages ikely to jap betv ers.	the en remain ween e	nd-to-e n in a to enginee	nd processes that can lead to the echnical position for long and will rapidly rs and business people to meet the demands	
ECCE	433	Windows Server Active Directory & XP Pro (MCSE - 3	2	2	3	ECCE 334	
Microsoft \ including f	t provides students with the knowledge and skills to successfully plan, implement, and troubleshoot a dicrosoft Windows Server 2003 Active Directory infrastructure focusing mainly on a Windows Server 2003 directory service environment, including forest and domain structure & Domain Name System (DNS). It also provides knowledge on the installation and troubleshooting of Windows XP host process, the installation on pow hardware drivers and configurations for a deckton environment.						

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	Code	Course Title	Lec	Lab	Cr	Prerequisite		
			Computer Engineering	9				
ECCE	434	Designing Security for Networks (MCSE -	4) 2	2	3	ECCE 433		
						re. Topics include are assembling the design curing computers in a networked environment.		
ECCE	435	Internet Security & Acceleration (MCSE -	5) 2	2	3	ECCE 434		
The Internet Security & Acceleration (ISA) course helps students to gain knowledge on the installation and maintenance of the ISA Server 2004, enabling access to Internet Resources, configuring the ISA Server as a Firewall & configuring Virtual Private network access for remote clients and networks. ISA server 2004 is the integrated edge security gateway that helps protect IT environments from Internet-based threats while providing users with fast and secure remote access to applications and data.								
ECCE	436	Security for Windows Networks (MCSE -	6) 2	2	3	ECCE 435		
of Smart C	Card Cer	· · · · · · · · · · · · · · · · · · ·	uration of Authentication provides information on t	he plar	ning an			
ECCE	443	Applied Robotics	2	2	3	ECCE 323		
as infrared maintainin	l and op g roboti	tical imagers) and control methods for act	uators and servo motors servicing. The course add	via mid	crocontr	ies, data acquisition methods for sensors (such collers. In addition, the course covers ed robotic topics, such as computer Vision and		
ECCE	451	Machine Learning	2	2	3	STAT 302 AND MATH 205		
build syste	ms that		ions. Some of the topics			ourse on Machine Learning will explain how to include concept learning, natural networks,		
ECCE	452	Computer Vision	2	2	3	ITCS 224		
This course aims to provide students with the fundamentals of Computer Vision including Image Processing and classification. Topics include: Digital Images and their Properties, Image Formation, Image Acquisition, Image Segmentation and Boundary Extraction, Feature Detection and Matching, Image Classification, Scene Matching and Detection, Object Recognition, Motion Estimation, Tracking, and Classification, Computer vision applications.								
ECCE	499	Major Project	0	6	3	ETHC 392 AND IERM 498		
member. A construction	All stage on of eq	quired to select a theoretical and/or a pra- s of project development should be emph uipment upon completion of the project, t an oral presentation.	asized including problem	identifi	cation,			
ECCE	500	Introduction to Information Security	3	0	0			
		ntroduction to security concepts and secu- nanisms; Symmetric-Key and Asymmetric-				covers the following topics: Security Attacks, Digital Signature.		
ECCE	503	Object Oriented Methodology	3	0	3			
variety of	software	es software engineering techniques in a ra e engineering techniques to the process of Is in various modeling languages and sche	software development e	special	ly throu			
ECCE	532	Advanced Information Security	3	0	3			
		uces the principles of information technology, Asymmetric-Key Encipherment, Integrity				cs: Introduction to the IT Security, Symmetric-		
INTR	432	BSCCE Internship	0	12	6	Completion of at least 90 credits		
INTR	461	BSCCE Internship	T 0	0	3	Completion of at least 00 gradite		
The main of	objectiv		epts that students learn i	n the c	ompute	Completion of at least 90 credits and communication engineering programme k.		
ITLS	500	Highway and Traffic Engineering Fundan		0	3			
	tion mo					ne transport planning and process including the neering and management, highway design,		
ITLS	501	Operational Management	3	0	3			
ITLS 501 Operational Management 3 0 3  This course provides students the basic knowledge of operations management in the supply chain. The course emphasizes decision-making in operations with a supply chain orientation. This course stresses the cross-functional decision to manage activities involved in moving products, materials, services, and information by making systematic approaches. Students will learn how to improve business logistics and supply chain management decisions through the practical application of multiple analytic techniques used by managers in the field. This course emphasizes operations management in transportation systems management and warehouse management.								
operations	manag	ement in transportation by stems manager		<u> </u>	IIC.			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Computer Engin	eering						
provides a and logisti	in overvi ics indus	es learners with critical knowledge and understanding in rela ew on the background and history of transportation, emphas try in economy, companies, society, and the environment. Lo t carrier operations, management, technology, and strategic	sizing th earners	ne fund will be	dament e equip <sub>l</sub>	al role and importance of the transportation ped with specialized theories and principles			
ITLS	513	Traffic and Transport Safety	2	2	3	ITLS 511			
This course provides a critical knowledge and understanding of Intelligent Transportation Systems (ITS) with inclusion of using information and communication technologies to improve transportation safety, productivity, and reliability. The course focuses on ITS applications that enhance road traffic and safety, through advanced information systems, vehicle-to-vehicle and vehicle-to-infrastructure communication, and sensors. The course emphasizes the importance of ITS in enhancing road safety and provides learners with the knowledge and skills needed to understand and apply these technologies in transportation systems. By the end of the course, learners will be equipped with critical skills and combination of concepts of ITS towards improving traffic safety.									
ITLS	514	Optimization Techniques in Transport and Logistics	2	2	3				
techniques route plan analytical computer	This course provides the learners critical applied knowledge to use of professional skills with various computer applications and optimization techniques in transport and logistics systems. The course provides an overview on complex issues that arise in areas such as vehicle distribution, route planning, and resource allocation, and the underlying concepts and modelling techniques used to solve them through critical thinking and analytical approaches. The course emphasizes practical application, with learners working on realistic case studies to design solutions using computer optimization tools and techniques that enables the leaners to generate high-quality solutions for the complex problems that arise in transport and logistics systems.								
ITLS	517	Innovation Project Management	3	0	3	ITLS 514			
process, a the examin project im through ca management	This course covers the main functions of Innovation Project Management, observation of Innovation Management as the idea commercialization process, and Project Management as the evolvement of generated and strategically adapted ideas. This course will help students to understand the examination of Innovation Strategy, Innovation Matrix, key strategic decisions, risk assessing, planning methods, and the whole process of project implementation based on a strong practical emphasis including case studies. The course is delivered with emphasis on applied knowledge through case studies, enabling learners to gain critical understanding of the challenges and opportunities associated with innovation project management. By the end of the course, learners will be equipped with critical knowledge and skills to manage and implement innovative projects successfully.								
ITLS	518	Transportation Policy, Strategy and Regulations	3	0	3	ITLS 511			
This course will provide critical knowledge and understanding in the field of Transportation Policy, Strategy and Regulations with a significant knowledge of key concepts in transport planning and policymaking, the course will be focused on the development of transport systems. Learners will be equipped with professional skills and creativity to provide insights into the challenges associated with transport system operation in local and regional cities by studying a range of case studies which expose learners to real-world examples of transport system development and management. Topics covered include current concepts in the strategic management, operating context, leadership challenges, strategies, and management tools of public and private transportation organizations. By the end of the course, learners will be equipped with professional skills related to transport planning and policymaking, as well as the strategic management of transportation organizations.									
ITLS	521	Urban Mobility and Smart Cities	2	2	3				
advances in growing in urban tech	in Inforn nterest in nnologies	d smart cities are areas of rapidly growing importance especi nation and Communication Technologies (ICTs) have disrupt n transitioning towards Smart Cities. This course will equip le s to enhance existing infrastructures cities to overcome the c re management.	ed trad arners v	itional with cr	urban i itical kr	nfrastructure service provision, leading to nowledge and skills needed to utilize smart			
ITLS	525	Supply Chain Logistics	2	2	3	ITLS 514			
the advan- course foc Material Ri comprehei chain oper	This course offers an international and global perspectives on logistics and supply chain management trends and issues. Topics covered include the advanced study and application of concepts and managerial techniques for manufacturing and service operations in supply chain logistics. The course focuses on the role of logistics in supply chains, including production technology, facility location and layout, inventory management, Material Requirements Planning (MRP), just-in-time manufacturing, total quality management, and distribution activities. Learners will gain a comprehensive and critical understanding of logistics in supply chain management and how logistics plays a crucial role to lead successful supply chain operations in a global business environment. By the end of the course, learners will have critical knowledge and professional skills to manage complex logistics for supply chain operations.								
		Geographical Information Systems for Transportation	2 (S) and	its an	3 olication	in transportation infrastructure and road			
safety ana techniques overlay an	This course provides critical knowledge of Geographic Information Systems (GIS) and its application in transportation infrastructure and road safety analysis. The course focuses on the essentials of GIS, geospatial data collection and management, database design, geo-referencing techniques, and visualization. Topics covered will include advanced topics in GIS such as spatial analysis and modeling, multilayer mapping, and overlay analysis. By the end of the course, learners will have a solid understanding of GIS and its application in transportation infrastructure and road safety analysis, as well as the ability to apply GIS tools and techniques to solve real-world problems.								
ITLS	528	Mobile and Network Communication for Transport Systems	2	2	3				
receivers, function of units commend of the	antenna f each el monly us course,	ks communication for transport systems explores elements of s, and channels, and how they interact to transmit information lement and how to evaluate system performance using a simple of intelecommunications, essential skills for working with relearners will be equipped with professional level of skills and transportation.	on over iple cha adio cor	distar Innel n mmuni	nces. Le nodel. T cations	earners will gain critical knowledge of the This course covers the use of magnitudes and in intelligent transportation systems. By the			

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Carran	Cada	Course Title		l b	<b>.</b>	Dunuanulaita		
Course	Code	Course Title  Computer Engin	Lec	Lab	Cr	Prerequisite		
	·			1	ı			
ITLS		Internet of Things	2	2	3	ITLS 528		
of Things ( including f capture m	(IoT) ard og, edge assive ar oad traff	s provide critical knowledge related to communication system thitectures. Topics covered include different alternatives for e, and cloud computing, other topics including ad hoc vehicu mounts of data that can be used in the context of big data, re ic, goods storage, and parking will also be covered, including	locating lar net real-wo	g comp works rld app	outation (VANET plication	closer or further away from the data source, S) and vehicular sensor networks (VSN), which is managing transport in port terminals, railway		
ITLS	537	Data Analytics for Smart and Connected Cities	2	2	3	ITLS 528		
The availability of large amounts of information in these areas requires the use of appropriate models to analyse and predict future trends. This course focuses on the use of adequate study and prediction methodologies for transport and logistics systems, socio-demography, urban and territorial characteristics, and activity centres. Learners will gain professional skills related to the use of classic activity and travel models, which provide the basis for working with agent-based models that take advantage of all available information. The course emphasizes the importance of using appropriate methodologies for analysing and predicting transport and logistics systems and provides learners with the knowledge and skills needed to work with agent-based models in this context.								
ITLS	539	Connected and Automated Vehicles	2	2	3			
This course provides critical understanding of concepts of autonomous, connected, and cooperative driving, with an emphasis on their impact on traffic, road safety, and emissions. The course covers topics related to different levels of automation, sensors and technologies, infrastructure, different types of communication and the legislation and regulations associated with autonomous vehicles. Learners will gain critical knowledge and exposure on recent road classification systems that consider the unique features of autonomous vehicles, the impact of autonomous driving on traffic functionality, road safety, and the environment will be covered.								
ITLS	597	Research Methodology	2	2	3	Completion of at least 9 credits		
systems. Learners will gain critical knowledge of the principles of the scientific methods including hypotheses, literature review, research design and development, analysis of data, and dissemination, communication, and exploitation of research results, as well as ethical considerations. By the end of the course, learners will be equipped with professional skills to design, execute, and communicate research results of in the field of intelligent transport and logistics.  ITLS 598 Applied Project in Intelligent Transportation and Logistics 0 12 6 ITLS 597 AND Completion of at least 24								
		Systems				credits		
Systems. I practical ir with skills specific an	The cour nplicatio to devel d provid	wide professional skills to be applied by learners to conduct se will provide a combination of approaches to critically analins serving industrial needs. The course will include manager op resources and practice tools and reflect on the outcomes e insight to support the organization and demonstrate skills	yze con ment and . At the in proj	mplex nd lead e end d ect ma	practica dership of the co inageme	I situation and evaluate practices to support related aspects the learner will be equipped burse learners is expected to solve a complex ent, problem solving, and communication.		
ITLS	599	Dissertation in Intelligent Transportation and Logistics Systems	0	24	12	ITLS 597 AND Completion of at least 21 credits		
Systems ir area; (2) a developme critical ana issues rela	nvolving a researcent study alysis. The	ovide a structured supervised in-depth study on a pre-appro- one of three methodologies: (1) a literature-focused study who focused study which aims to draw on practical data to ass which aims to explore an area or ideas, or demonstrate a content of the dissertation engages the learner in a progressive course of the light transportation and Logistics Systems, methodologistics production of manuscript subject to defense.	which a sess crit concept of intelle	ims to cically a throu ectual	critically a specifi gh appr discours	y discuss the literature within a specified topic led area or topic; or (3) a practical opriate practical development testing and se involving problem identification of complex		
		Telecommunication E	Engine	ering				
ECTE	201	Data Networks	2	2	3	ITCS 101		
	ation sys	uces data communication networking. It includes: foundation stems, OSI model, protocols and mechanisms used in the TC s.						
ECTE	221	Telecommunication I	2	2	3	ECCE 121 OR PHYS 121		
This cours	e intend	s to introduce general telecommunication principles including	g: signa	als, tra	nsmissi	on media, modulation and multiplexing.		
ECTE	224	Signals & Systems	2	2	3	ECCE 201 AND ECCE 204		
time signa	ls, prope	n overview of continuous-time signals and systems. It cover trites of Linear Time-Invariant (LTI) systems, The Convolutic ncluding basic properties of Laplace, and applications of sign	on integ	gral, In	npulse a	and step responses of LTI systems, concept of		
ECTE	302	Principles of Networking	3	0	3	ITCS 202		
systems, t	he sever	ices data communication networking. It covers the concepts in layer model of a network (application, presentation, session in network performance.						

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	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Telecommunication	Engine	ering		
ECTE	309	Introduction to Cellular Systems	3	0	3	ECTE 221
of cellular	mobile a n; Char	is a comprehensive knowledge of all technical aspects, oper and personal communication technology in terms of: Basic p inel modeling; Principles of cellular communications systems	oropaga	tion; M	lobile	S
ECTE	314	Communication Systems I	2	2	3	ECTE 224
	dulation	uces and emphasizes essential analytical tools and theories (AM, FM, PM); frequency division multiplexing and filtering				
ECTE	321	Telecommunication II	2	2	3	ECTE 221
		on the knowledge gained from a previous course (ECTE 22 gital and optical communications and networks.	1). Furt	hermo	re, it	
ECTE	322	Antenna and Wave Propagation	2	2	3	MATH 205 AND MATH 223
begins with electromag	h a revie gnetic in lectroma	ents to antennas and propagation for wireless communication of vector calculus and coordinate transformations. It cover duction and electromagnetic waves. Students gain knowled agnetic fields problems. Other concepts such as waveguides course.	ers fun ge of M	damen axwell	tal conc 's Equat	epts of electrostatics, magnetostatics, ions and learn how to apply them to solve
ECTE	324	Communication Systems II	2	2	3	ECTE 314
modulatior	n (ASK,	on the knowledge gained from the previous communicatior FSK, PSK, QAM); transmission of digital data over baseband ng distance, linear block codes, cyclic codes, checksum, for	l channe	el (line	coding,	block coding, scrambling); error detection and
ECTE	328	Mobile Application Development	2	2	3	ITCS 221 AND ECTE 201
test and de interfaces, providers,	eploy ac Activition backgro	uces an in-depth review of concepts, design strategies, tool- lvanced applications for mobile phones and occasionally cor es, handling notifications, user interface design, user interfa ound services, geo-location and mapping, networking and w cing environment changes overtime; currently the course ex	nected ce build eb serv	mobile ling, in ices, te	e device ter-proc elephony	s. Topics include: design of mobile user less communication, data processing, content y, messaging, peer-to-peer communication.
ECTE	329	Computer Networks	2	2	3	ITCS 214 OR ECCE 203
and media	; TCP/II	s on the underlying concepts and technologies of computer protocol; network topologies; network hardware, switching peer-to-peer file sharing.				
ECTE	333	Interconnecting Network Devices I (CCNA - 1)	2	2	3	ECTE 201 OR ECTE 302
network, ir	ncluding	es on providing the skills and knowledge necessary to install configuring a switch, a router, and connecting to a WAN a ation and implementation of a small branch office network u	nd imple	ementi	ng netw	
ECTE	334	Interconnecting Network Devices II (CCNA - 2)	2	2	3	ECTE 333
		es on providing the skills and knowledge necessary to install c, including implementation of several routing protocols and				
ECTE	349	Network Routing & Switching	2	2	3	ECTE 329
		k Switching course will enable the learners with advanced sl v6 Small to Medium Enterprise networks, including configuri		N swit	ch, conf	
threats, un		ding redundant topologies, troubleshooting common netwo understanding WAN technologies.		s, con	necting	
threats, un				s, con	necting 3	
threats, un EIGRP and ECTE This Cours	OSPF, 405 e will co	understanding WAN technologies.	rk issue	0 data in	3 dividual	to a wide-area network (WAN), configuring  ECTE 450  y. Covering different issues related to: genera
threats, un EIGRP and ECTE This Cours	OSPF, 405 e will co	understanding WAN technologies.  Multimedia Communications  onsider each part of a multimedia application, i.e. voice, vide	rk issue	0 data in	3 dividual	to a wide-area network (WAN), configuring  ECTE 450  y. Covering different issues related to: genera
threats, un EIGRP and ECTE This Cours behaviors, ECTE This course and data ir to general	e will conformat, 406 e introdudividua behavio	Multimedia Communications  Insider each part of a multimedia application, i.e. voice, vide representation, encoding-decoding techniques and telecom	3 eo and onmunica 2 rse consding tex	0 data in tion m 2 siders e	3 dividual edia rec 3 each par	ECTE 450  y. Covering different issues related to: general quirements.  ECTE 450  t of a multimedia application, i.e. voice, video, and video. Covering different issues related
threats, un EIGRP and ECTE This Cours behaviors, ECTE This course and data ir to general	e will conformat, 406 e introdudividua behavio	Multimedia Communications Insider each part of a multimedia application, i.e. voice, vide representation, encoding-decoding techniques and telecom Multimedia Communications  Luces technologies for multimedia communications. The cour lly, and how to effectively represent multimedia data, includors, format, representation, multimedia coding standards, in	3 eo and onmunica 2 rse consding tex	0 data in tion m 2 siders e	3 dividual edia rec 3 each par	ECTE 450  y. Covering different issues related to: general uirements.  ECTE 450  t of a multimedia application, i.e. voice, video and video. Covering different issues related

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Telecommunication	Engine	ering		
ECTE	414	WAN Technology	2	2	3	ECTE 329
configurati	on and	ses typical Wide Area Network (WAN) technologies along w croubleshooting skills will be included. Topics to be covered P, CHAP, WAN Tunneling and VPN.				
ECTE	420	Multimedia Networks	3	0	3	ECTE 410
		nsider multimedia communication principles. This includes c s and ATM networks	lifferent	techn	ologies	such as: switching, circuit switching networks,
ECTE	421	Network Design & Security	2	2	3	ECTE 349
		es an overall scheme for designing secure multimedia netwo technology, traffic modeling, QoS, network security.	orks. It	covers	the fol	lowing concepts: application requirements
ECTE	423	Data Security	3	0	3	ECTE 302
ECTE	424	Wireless Communications	2	2	3	ECTE 324
This course	e introdi	uces Modern wireless communication principles and techniq	ues. It	focuses	on Cel	lular communication fundamentals (design,
interferenc	e and c	apacity, trunking and traffic models, air interface, propagati	on mod	lels and	d mecha	anisms, large/small scale fading, diversity
		d spectrum coding; current and future wireless systems and		т —		
ECTE	428	Wireless Systems Overview	2	Claha	3	ECTE 321
Communic	ations S	es a comprehensive introduction to Wireless Systems: AMPS ervices (PCS). IS-95. International Mobile Telecommunication: ation: Ricochet, HomeRF, HyperLAN, and Bluetooth.				
ECTE	431	Communication Networks	2	2	3	ECTE 201 AND ECTE 324
enable trai error recov	nsmissio ery sch	the basic architecture of communication networks and the n of packets through the network. Performance analysis an emes, networks of queues, congestion control, routing strat ut and delay performance. Wireless networks, routing appro	d desig egies. I	n of da Multiple	ta and access	integrated services networks, Re-transmission stechniques in data networks, design for
ECTE	433	Building Scalable Internetworks I (CCNP - 1)	2	2	3	ECTE 334
troublesho	oting ne	dents will learn how to create an efficient and expandable e twork infrastructure equipment (especially routers such as ite Network model. The routed network includes the most of	Cisco IS	SRs) ac	cording	to the Campus Infrastructure module in the
ECTE	434	Building Scalable Internetworks II (CCNP - 2)	2	2	3	ECTE 433
		e gives the student a more in-depth knowledge into implen uting updates, and EIGRP and OSPF.	nenting	multic	ast, imp	elementing of IP v6, the IS-IS protocol,
ECTE	450	Digital Signal Processing	2	2	3	ECTE 224
time and fi properties,	requenc applica	ts the theory and practice of digital signal processing. it co y analysis of discrete-time signals and systems, Z-transform tions and computation methods with emphasis on fast Four ourse concludes with a brief introduction to 2-D signal (ima	applica ier tran	ations t sform;	o signa analysi	I processing; discrete Fourier transform:
ECTE	454	Satellite and Space Communications	2	2	3	ECTE 322
Modulation	n, Multip	topics such as Introduction and Background, Orbital Aspectle Access & On- board Processing, Coding, Frequency & Prorbits (NGSO), Applications (GPS, Mobile, Internet, etc.)				
ECTE	472	Software-Defined Radio	2	2	3	ECTE 324
baseband : architectur	signal press, soft	all aspects of SDR technology. Specifically it includes an overocessing algorithms, analog-to-digital converters, radio from ware architectures, middleware and the Software Communications, software-defined radio products and services.	nt-end o	compor	nents, d	igital hardware architectures, software
ECTE	474	Optical Communications	2	2	3	ECTE 324
parts of op amplifiers,	tical sys dispers	es an overview of optical communication system (from sour- tems. Topics include Optics and wave propagation for fiber on, wavelength multiplexing, detectors and noise, system a int-to-point optical communication principles and will be inti	optics, rchitect	light e ture for	mitting optical	diodes and diode lasers, optical fiber, optical communication. Students will then learn and
ECTE	499	Major Project	0	6	3	IERM 498 AND ETHC 392
Each stude member. A building of	All stage equipm	quired to select a theoretical and/or a practical problem rela s of project development should be emphasized including pre ent. Upon completion of the project, the student must subresentation.	oblem	identifi	cation,	library search, planning, designing and/or
aa gc a						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Telecommunication E	ngine	ering					
as ?The eland public	lectronic services	dia Communications has been defined by the Professional Ne means by which multimedia content (voice, text, image, dat s, business and commerce, education and entertainment?. The media communications.	ta and v	video)	is creat	ed and distributed in the fields of Government			
ECTE	536	Wireless Networks Overview	3	0	3				
such as: m	The course gives an overview of wireless networks principles. This includes different technologies such as: mobile phone networks, mobile internet networks, and Mobile ad-hoc networks including WI-FI, WI-Max and Bluetooth.								
ECTE	598	Project Dissertation in Networking and Security	0	6	3				
ECTE	599	Dissertation (in Networking and Security)	0	24	12				
IERM	498	Research Methods in Information Technology & Engineering	3	0	3	Completion of at least 90 credits			
to conduct	The course introduces the essential aspects of designing, supporting, and conducting a research project. It enables students to develop capacity to conduct small, simple research projects while at the university. The course spans multiple elements including time management, writing and presentation skills, literature search and general considerations for experiment design and planning.								
INTR	431	BSMNE Internship	0	12	6	Completion of at least 90 credits			
INTR	462	BSMNE Internship	0	0	3	Completion of at least 90 credits			
		e of the Internship is to integrate the concepts that students by providing a training program that supplements and con							
		COLLEGE OF INFORMATION	N TEC	HNOL	.OGY				
	Information Technology Masters								
ECCE	501	Introduction to Information Security	3	0	3				
		ntroduction to security concepts and security techniques and hanisms; Symmetric-Key and Asymmetric-Key Encipherment,							
ECCE	507	Modeling & Simulation	3	0	3				
It covers n Communic and analys	model co cation En se such s	uces fundamental principles and concepts in the general area instruction and simulation applied to problems taken from IT agineering fields. The course also focuses on the use of simusystems. Topics to be covered in this course include basics of statistical models, queuing models, simulation design, and not a simulation design.	and fro lation p of discre	om Co ackag ete-eve	mputer es to m nt syste	and odel, simulate em simulation,			
ECTE	531	Advanced Networking	3	0	3				
		an overview of networking in general and concentrates on the detail the following layers: Network, Transport and Applicat		oses a	nd prot	ocols involved in the upper IP reference model			
ECTE	535	Broadband & Wireless Networks	3	0	3				
techniques	s, queuin	scusses various concepts involved in broadband networks ing and delay analysis, quality of service and resource allocati Telephony Networks, Optical Networks, VoIP and Enterpris	ion. The	e seco	nd part	of the course gives an overview of multimedia			
ECTE	537	Network Security	3	0	3				
		advanced topics in IT security spanning Network security in The Network Layer, and general aspects in Mobile ad-hoc ne				he Application Layer, Security at the Transport			
ITCS	500	Object-Oriented Programming	3	0	0				
Model, Cla	asses and	e on object-oriented programming (OOP) paradigm and adva d Objects, Constructors and Destructors, Inheritance, Virtual ing and Standard Template Library.							
ITCS	502	Data Structures & Algorithms	3	0	0				
major com structures	nponent of and algo	asizes data structures and the development and analysis of to of any software system. Students learn to make intelligent do prithms or designing his/her own when necessary. Topics sp mentation of algorithms.	lecision	s abou	t altern	ative techniques, choosing from existing data			

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Information Technol	ogy Ma	asters				
ITCS	506	Advanced Algorithms	3	0	3			
set manipu amortized are discus	ulation a analysis sed, alor s, (2) the	the design, proof of correctness and analysis of algorithms. and searching, graphs and geometric problems. Analysis tech are Average case analysis includes the development of a probang with NP-completeness. Students learn (1) a range of advance notion of complexity classes for algorithmic tasks, complete ligorithms.	niques ability n anced a	include nodel. Igorith	e asym <sub>l</sub> Technic ms in a	ototic worst case and average case, as well as lues for proving lower bounds on complexity reas such as string searching and graph		
ITCS	508	Systems Programming	3	0	3			
This course provides computer engineering students with system design software and hardware experience. Students are required to implement and test interface software, written in assembly language and C, that controls hardware devices on the personal computer such as the keyboard, the CRT, serial and parallel ports, and PCI-based controllers. Students also are required to build a basic computer system using off-the-shelf components. This course includes a laboratory. This is an introduction to computer architecture and systems programs, machine organization, instructions, data representation, and addressing. Topics covered include assemblers, linkers, loaders, operating systems, and elementary assembler language programming.								
ITCS	509	Artificial Intelligence	3	0	3			
perspective based and	e and fa knowle	es on solving real world problems using techniques and meth miliarizes students with the present and future of AI. This co dge-based. The course is also to explore advanced AI techni	ourse is ques, s	to cov uch as	er two	types of problem solving approaches: search-		
ITCS	510	Data Mining	3	0	3			
such as in	ductive i	uces the main processes and main techniques of data mining inference of decision trees and neural network learning, clus lti-relational data mining and time series mining.						
ITCS	511	Advanced Database Systems	3	0	3			
emphasis on the relational model and relational systems. Students are expected to design and implement a relational database within the concept of an information system using appropriate analysis and modeling techniques and a modern Database Management System as well as to understand RDBMS, advantages and disadvantages of different query languages and concurrency control and basic query processing.  ITCS 514 Object Oriented Software Engineering 3 0 3  This course focuses on object-oriented approach necessary to solve advanced and complex real-world problems. It is to understand a range of specialized theories, principles and concepts of object-orientation; object oriented software development process; the use of object-oriented design tools such as UML for modeling problem solutions. Topics include: Problem analysis and specification of software requirements; object-oriented design; reusability and design patterns; unit testing; advanced software development methodology such as Adaptive Object-Oriented								
Software [ ITCS	515	Business Intelligence	3	0	3			
organizatio dispersing business ir	on to ma informa ntelligen	ce (BI) refers to the science of using advanced analysis and ake sound decisions. In this course, students will learn how to tion. Moreover, students will be introduced to some BI software framework, infrastructure, and current techniques used bort business decision-making.	o maxi vare an	mize bo d tools	usiness such a	advantage by locating, extracting and s Microsoft BI. The covered topics include		
ITCS	516	Object-Oriented Programming	3	0	3			
Model, Cla	sses and	e on object-oriented programming (OOP) paradigm and adv d Objects, Constructors and Destructors, Inheritance, Virtual ning and Standard Template Library.						
ITCS	517	Data Structures & Algorithms	3	0	3			
major com structures	ponent and alg	asizes data structures and the development and analysis of to of any software system. Students learn to make intelligent corithms or designing his/her own when necessary. Topics spentation of algorithms.	lecision	s abou	t altern	ative techniques, choosing from existing data		
ITCS	518	Mobile Application Development	3	0	3			
test Andro	id applic	ses the principles of design and development for mobile devications. The topics covered include Android platform; mobile pment environments and simulators, and user interfaces; loc	hardwa	are; ce	ll netwo	orks; mobile architectures, operating systems,		
ITCS	520	Big Data Analytics	3	0	3	ITCS 511		
and techni analysis. T	iques ap opics co	s foundational techniques and tools required for data science plicable to any technology environment and industry with er overed include concepts and algorithms for building big data erging big data technology and tools	nphasis	on sy	stems a	nd algorithms for large-scale advanced data		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
Information Technology Masters									
ITCS	526	Cloud Computing	3	0	3				
various av	ailable s	es an overview of cloud computing that uses Internet as the ervice models including: Infrastructure-as-a-Service (IaaS), accessing cloud system, cloud computing security and perfo	Platforr	n-as-a					
ITCS	527	Advanced Networking	3	0	3				
the archite	This course is to describe the advanced concepts of networking, Networking and interconnectivity, Application networking services such as design the architecture and services of email systems and describe the role of networking in file service applications, network management, and wireless and mobile networking.								
ITCS	528	Cyber Security	3	0	3				
elements of	of inform	ritically understand the advanced techniques of security systiation systems and specifically transmitted, stored, and procencipherment, authentication, and information hiding.			nent, di	fferent mechanisms used to protect the			
ITCS	529	Parallel and Distributed Systems	3	0	3				
scalable m	ultiproce	the architecture and enabling technologies of parallel and dessors, distributed clusters, P2P networks, computational Grint supercomputers and distributed systems for high-perform	ids, and	l virtua	ıl machi	nes. The course aims to acquaint students			
ITCS	530	Bioinformatics Computing	3	0	3				
Bioinformatics is the study of the structure and function of genes and proteins through the use of computational analysis, statistics, and pattern recognition and the use of databases, search and web-based interfaces to store, annotate and retrieve gene, protein and other information. This course focuses on the computing aspects of Bioinformatics. It introduces the broad frontiers of bioinformatics topics from fundamental algorithms to practical tools. Course topics include an overview of some bioinformatics resources, pattern matching, sequence alignment, gene prediction, fragment assembly, multiple alignment, phylogeny, statistical and machine learning approaches.									
ITCS	534	Advanced Distributed Systems	3	0	3				
The internet and recent advances in client-server and peer-to-peer open distributed computing such as Java and many types of middleware has presented the opportunity of combining these highly sophisticated distributed systems technologies with a range of information systems application domains. The distributed information systems will deliver faster, highly reliable applications that are accessible globally. This course affords students the opportunity to solve a distributed systems development problem by application.									
ITCS	535	Internet of Things (IOT)	3	0	3				
platforms,	embedo	re students a theoretical and practical grounding in Internet led programming and debugging, networking paradigms for the students to design, build, evaluate, document, and der	IoT, se	cure o	peration	n, cloud integration, and simple data analytics.			
ITCS	538	Machine Learning	3	0	3	ITCS 509			
supervised classification	l, unsupe on of da	d course on machine learning, focusing on recent advances ervised and reinforcement. The course covers advanced madta, automatic regression and unsupervised model fitting. Apparatory data analysis in natural science and engineering.	chine le	arning	algorith	nms and techniques, such as neural networks,			
ITCS	539	Digital Forensics	3	0	3	ITCS 528			
the studen emphasize	its to lea s the co vill learn	es the investigation of computer-related crimes with the goa irn the principles and techniques for digital forensics investig re forensics procedures to ensure court admissibility of evide the forensic investigation on Windows operating systems w	gation a ence, a	nd the s well a	spectrums the le	um of available computer forensics tools. It egal and ethical implications. In addition,			
ITCS	540	Advanced IT Project Management	3	0	3				
This course introduces advanced IT project management concepts and capabilities. It focuses on applying specialized and professional project management methodologies such as moving from Waterfall to Agile project management. Through lectures, reading, discussions, exercises and projects, students will become more proficient with advanced IT project management terminology, techniques, and technologies. Students will also apply industry-standard project management in a framework of productive team dynamics, consumer frame of reference, and organizational.									
ITCS	541	Advanced AI Applications	3	0	3	ITCS 509			
		over different advanced AI applications, such as, computer vobotics. Students will learn specialized theories and concepts							
ITCS	550	Research Methods & Modeling	3	0	3	Completion of at least 9 credits			
carry out to enable s	heir inde students	es knowledge and skills in useful qualitative and quantitative ependent research and to execute and plan their research propertion of the properties of the	rojects search <sub>l</sub>	in IT a probler	nd Com n, to co	puter Science. Particular focus of the course is nceptualize their research design and to write			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Information Technol	ogy M	asters	;				
ITCS	598	Project Dissertation in Information Technology	0	6	3				
which inclu	udes pro	icts a study on a topic in the field of computer science under blem identification, methodology, n and discussion of the findings is subject to a panel evaluat		ipervisi	ion of a	faculty member. The final written manuscript			
ITCS	599	Dissertation in Information Technology & Computer Science	0	24	12	ITCS 550 AND Completion of at least 21 credits			
A structured supervised in-depth study on a pre-approved topic in the field of information technology can entail one of three methodologies: (1) a literature-focused study which aims to critically discuss the literature within a specified topic area; (2) a research focused study which aims to draw on practical data to assess critically a specified area or topic; or (3) a practical software development study which aims to explore an area or ideas, or demonstrate a concept through appropriate software development testing and critical analysis. The dissertation engages the student in a progressive course of intellectual discourse involving problem identification, methodology, research, evaluation and recommendation that culminates in the production of manuscript subject to public defense.									
ITFN	500	Object Oriented Programming	3	0	3				
Object Mo	del, Clas	e on object-oriented programming (OOP) paradigm and adv ses and Objects, Constructors and Destructors, Inheritance, ic Programming and Standard Template Library.							
ITFN	501	Data Structures & Algorithms	3	0	3				
major com structures	This course emphasizes data structures and the development and analysis of their associated algorithms. Data structures and algorithms from a major component of any software system. Students learn to make intelligent decisions about alternative techniques, choosing from existing data structures and algorithms or designing his/her own when necessary. Topics span: asymptotic analysis of algorithms, methods for proving correctness, software implementation of data structures and their associated algorithms.								
ITFN	502	System Architecture	3	0	3				
associated methods, f	To discover systems architecting as a critical part of IT systems engineering development. In this course, students will learn the classic methods associated with systems architecting and extend those concepts to complex systems. Gain the skills necessary to apply practical management methods, focusing on the role of the systems architect on a development team.								
ITMS		Multimedia Information Systems	3	0	3				
information deep cover systems pr	n in a varage of its rojects;	cutes an approach to multimedia information systems that an ariety of forms, including text, image, video and audio. It pre XML and XML Databases with particular focus on: (1) develo (2) employing evaluation techniques for multimedia authorin he current state of multimedia applications and their impact	esents a ping sk ng syste	a gene kills in t ems an	ral over the desi d multii	view of electronic multimedia documents, a gn and management of multimedia information			
		Information Tech	hnolog	ıy					
ETHC	392	Ethics and Professional Practice in IT and Engineering	3	0	3	Completion of at least 66 credits			
emergent intellectual codes of e subject. Th	technolo I proper thics. The ne stude	es and discusses key ethical, legal and professional issues ar ogies within frameworks that highlight their ethical, legal and cy, software piracy, cybercrime, digital identity, software reliance the students critically examine current and relevant research and that careers in IT and Computer Engineering are not appropriate the everyday lives of professionals.	d social ability, and pa	implica risk an rticular	ations. d d safety case st	Fopics include privacy, confidentiality, security, and professional standards of conduct and cudies to enhance their understanding of the			
INTR	441	BSIT Internship	0	12	6	Completion of at least 90 credits			
INTR	463	BSIT Internship	0	0	3	Completion of at least 90 credits			
In today's turbulent economic environment, a country workforce is increasingly pivotal to business success. Stemmed from the desire and sense of responsibility that Ahlia University has against the society and their own students, and as part of their vision, of being leaders in the market of higher education, they do understand the need to invest in their capital made of partially their students in order to equip the market with talented workforce. Based on this INTR 463 course was introduced, representing a structured opportunity to incorporate academic, professional and personal skills development which enables the student to gain a planned and directed learning experience. It enables the student to integrate knowledge gained through their classroom learning with the competencies made available through actual experience in a professional setting. The internship programme requires a minimum of 240 hours of work at the internship worksite. Students will receive academic credit after a successful completion of the programme. The numbers of credits that are earned by the student as a result of successful completion of the internship programme are 3 credits.									
ITCS	101	Introduction to Computers & IT	2	2	3				
		introduction to computers and information technology. The apponents, hardware and software) to the students and to tea							
ITCS	121	Computer Programming	2	2	3	ITCS 101			
		tory course in programming using Visual Basic. Topics incluc tions and input/output and control structures. Emphasis is pl							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Information Tech	nnolog	у					
ITCS	122	Introduction to Programming Techniques	2	2	3	ITCS 101			
control sta	tements	uces the fundamental concepts of programming. The covere s, methods and functions, arrays and strings, classes and obj . Emphasis is placed on the development of problem-solving	jects, a	s are p nd an	rimitive introduc	data types and operators, input/output, tion to Java applications and object-oriented			
ITCS	201	Object-Oriented Programming I	2	2	3	ITCS 122			
This course emphasizes on object-oriented programming techniques using Java. It covers the implementation of object oriented concepts, such as: classes, objects, inheritance and polymorphism.									
ITCS	202	Computer System	3	0	3	ITCS 101			
This course as operatir	e provid ng syste	es broad background knowledge of computer hardware and ms, computer networks and object-oriented and component systems thinking and covers key systematic structures in con	-based	softwa	are infor	encompassing modern computer systems (such mation systems). This course imparts an			
ITCS	203	Foundations of Computing	3	0	3	MATH 102			
		the fundamental concepts of discrete mathematics that are logic and mathematical reasoning, sets, functions, counting							
ITCS	205	Internet Technology	3	0	3	ITCS 101			
ITCS	209	Discrete Structures	3	0	3	MATH 102			
		the fundamental concepts of discrete mathematics that are logic and mathematical reasoning, sets, functions, counting				nation technology and engineering. The			
ITCS	214	Computer Systems	3	0	3	ITCS 101			
execute pr logic, mem performan	ograms ory org ce and t	ntroduction to the fundamental concepts of computer system and manipulate data. Topics covered include: data represen anization and management, I/O devices and storage devices to solve its problems.	tation s. In ad	of prim dition,	itive da it cover	ta types, machine-level programming, digital s the techniques used to improve computer			
ITCS	221	Object-Oriented Programming II	2	2	3	ITCS 201			
		on the information gained from the previous Java programi ning issues such as: Java Applets, Multimedia (applets and a							
ITCS	222	Visual Programming	2	2	3	ITCS 122			
interface (	GUI) usi	uces Windows programming environment. Students learn ho ing event-driven programming language, which is Visual Bas tions and input/output, control structures, and functions. Em	ic. Top	ics incl	ude dat	a types and structures, arithmetic and logical			
ITCS	223	Models of Computations and Systems	3	0	3	ITCS 203			
pumping le	emma fo	ts of three topical areas. The first part includes regular langu or regular languages. The second part covers pushdown auto nguages, and Turing machines. The last part covers decidab	omata,	contex	t free la	inguages and grammars, the pumping lemma			
ITCS	224	Data Structures	2	2	3	ITCS 201			
analysis of	differer	uces different data structures such as: arrays, linked list, sta nt algorithms to manipulate these data structures, such as: c a structure algorithms and apply them using a programming	reate,	travers					
ITCS	225	Introduction to Information Security	3	0	3	ITCS 101			
Vulnerabili	ties and	es fundamental elements of information security. Areas cover attacks to the systems. Basics of cryptography for informatic tures and assignments students will gain a high-level under	ion hidi	ng, Se	curity to	ools, ethical issues, Security management.			
ITCS	226	Advanced Programming	2	2	3	ITCS 201			
		on the information gained from the previous programming nbda, Django Framework, multithreading, Remote Method In							
ITCS	228	Introduction to Mobile Systems	3	0	3				
ITCS	301	Interactive Systems	3	0	3	ITCS 222			
ITCS	302	Introduction to Networking	3	0	3	ITCS 202			
		<u> </u>							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Information Tech	nnolog	y		·
ITCS	303	Design and Analysis of Algorithms	2	2	3	ITCS 224 AND ITCS 209
The course induction also introc	se covers and recu duced to	classical techniques and paradigms used in the design and aursion, divide and conquer, dynamic programming, and greed deal with NP-Complete problems. Students will be able to pred to solve practical problems.	dy appr	oach.	Techniq	s. Some of the covered techniques are ues like backtracking and randomization are
ITCS	304	Control Systems	3	0	3	ITCS 300
ITCS		Internet Services & Securities	3	0	3	ITMS 205 OR ITCS 205
techniques	s for pro	s on the key aspects of Internet security. It imparts knowled tecting data and networks, symmetric and asymmetric crypto		y, auth		on, malicious software, and issues in privacy.
ITCS		Software Engineering Methods	3	0	3	ITCS 201
(specifical Emphasis	lly the no is placed	ts knowledge and skills necessary for the design of object-orionation, models, strategies and processes for design and desing on use of a Use-Case-driven method that is built on the Unwrite well-formed designs that employ UML.	ign doc	ument	s using	a recognised object-oriented method).
ITCS	313	Software Engineering I	2	2	3	ITCS 201
		ive a clear understanding of the concepts of software engine ferent software process models, software requirement engine				
ITCS	316	Desktop Publishing	2	2	3	
	T -21	T				TT00 244
ITCS		Professional Software Practice	3	0	3	ITCS 311
		es skills and knowledge involving legal, social and ethical issinduct to which professional software bodies subscribe to prep				
ITCS	322	Telecommunication Networking	3	0	3	ITCS 302
TTCC	T 222	D. J. L. Costoner Design and Application	<del></del>		-	ITCC 222
This cours	323	Database Systems: Design and Application es a comprehensive knowledge of database (DB) developme	2 ont and	2	3 Tement	ITCS 222
(DBMS). If	It details	the concepts necessary for designing, implementing and using elational data model, normalization of relations and data mo	ng data	abase s	systems	. Topics include database and file system,
ITCS	324	Software Analysis and Verification	3	0	3	ΠCS 311
efficiency analysis te	or locatii echnique	of this course is to hone skills in the analysis, development a ng certain types of faults. The two topics, of software analys is that may be used to support testing. Students actively part an initial implementation and the delivery of the complete sy	sis and ticipate	softwa	re testir	ng, are linked through considering software
ITCS	327	Software Engineering II	3	0	3	ITCS 313
certain typ	pes of fa ltation an	urse is to hone skills in developing and testing of code, execu ults. Students actively participate in the main software devel- nd the delivery of the complete system. The following topics of f software engineering, Software Quality that testing aims to	lopmen are cov	t activi vered: s	ties tha software	t straddle the production of an initial e implementation, software testing in the
ITCS	328	Mobile Information Device Programming	2	2	3	ITCS 221
popular de using the	evices. T Java pro	orm has become one of the top mobile platforms in the world his course covers the Android system, the Android developm ogramming language. Learn how to create user interfaces, us he sensors. Students will leave this class being able to write	nent too se the s	ols, and storage	d all tha and SC	t is needed to create Android applications,
ITCS	_	Introduction to SQL (ODBA - 1)	2	2	3	ITCS 323
	orking wit	les students with extensive knowledge and key skills needed th different data types, different functions, different queries a				age, maintain and query Oracle database. This
ITCS	334	Introduction to PL/SQL (ODBA - 2)	2	2	3	ITCS 333
		es students with critical knowledge and advanced training or L syntax, blocks and programming constructs as well as the				

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students learn how to design reusable programs units such as procedures and functions. Moreover, it helps student in learning how to use iSQL\* Plus as a development environment; for writing PL/SQL programs units and execute them efficiently.

Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Information Tech	nnolog	У					
ITCS	335	IT Infrastructure	2	2	3	ITCS 214			
covers IP for existing	fundame g IT prof	es the fundamental networking skills required to deploy and entals, remote access technologies, and more advanced cont fessionals who have some networking knowledge and expering the tworking technologies in NOS.	ent inc	luding	Softwar	e Defined Networking. This course is intended			
ITCS	336	Database Administration I	2	2	3				
		students critical knowledge and expertise on administrating t ides: installing Oracle Database 11g, controlling the databas							
ITCS	341	System Administration I	2	2	3	ITCS 214			
		es broad knowledge and experience for IT professional. Stud r requirements, install, configure PCs and software for end u							
ITCS	349	IT Innovation and Entrepreneurship	3	0	3	Completion of at least 66 credits			
technopre innovative	The course explores and discusses the principles of entrepreneurship, the entrepreneurial mindset, with guidance on the specialized field of technopreneurship and developing entrepreneurial skills through hands on learning. The course examines the creation of a new by transforming innovative ideas into commercially viable businesses for profit or social ends. The course explores the tools and frameworks required for managing, commercializing and marketing technological innovation, which equips the students with the understanding required to successfully								
ITCS	401	Software Project Management	2	2	3	ITCS 311			
organizing	The course focuses on the key aspects of software project management. It develops the ability of managing software projects, including organizing the software development team; selecting the best approach and tailoring the process model; estimating software cost and schedule; planning and documenting the plan; risk management and resource allocation.								
ITCS	402	Intelligent Systems	3	0	3	ITCS 303			
	100	lv			_	TT00 202			
ITCS	403	Knowledge Systems Engineering	3	0	3	ITCS 303			
ITCS	404	Information Security Engineering	2	2	3	ITCS 327			
This course is to cover technical and administrative aspects of Information Security and Assurance. Topics covered: Information Security Concepts, The Need for Security, Security Services and Mechanisms, Security System Development, and Security Mechanisms, such as: Cryptographic systems, Information Hiding, Entity Authentication, and Digital Signature.									
ITCS	· -	IT Project Management	2	2	3	ITCS 327			
project de	velopme	s on the key aspects of IT project management. It develops nt team; selecting the best approach and tailoring the proceolan; risk management and resource allocation.	the ab	ility of Iel; est	managi imating	ng IT projects, including organizing the IT IT project cost and schedule; planning and			
ITCS	409	Operating Systems	3	0	3	ITCS 214 OR ECCE 303 OR ITCS 303			
environme structure;	ent in wh process	over the concepts, structure, and functions of operating syst ich users can execute programs in a convenient and efficien management: process, threads, CPU scheduling, process sy file systems.	t manr	er. To	pics cov	ered include computer system and OS			
ITCS	413	Intelligent Systems	2	2	3	ITCS 303			
various Ar Intelligent	tificial In agent a	over the specialist theory, concepts, and methods of intellige telligence (AI) techniques, and to develop effective intelligend problem formulation; search-based problem solving techneration, knowledge reasoning, and expert systems.	nt syste	ems us	ing rang	ge of AI tools. It covers the concepts of			
ITCS	418	Mobile Enterprise Systems	3	0	3	ITCS 202 OR ECTE 201			
This cours	i	tes the mobility demand within the enterprise systems. It co				ehaviours, users, services and security.			
ITCS	421	Information Technology: Strategic & Managerial	3	0	3	ITCS 323			
ITCC	422	Distributed Customs	<u> </u>	١ ،	2	ITCC 400			
ITCS	422	Distributed Systems s on the key aspects of distributed systems. It imparts know	2 lodgo (	2 of dictr	3 ibuted o	ITCS 409			
implement	ation. It	covers transparency in a distributed system, architectures, and naming.							
ITCS	423	Data Security	3	0	3	ITCS 322			
		L							
ITCS	424	Information Systems	3	0	3	ITCS 202			
focus on tl	he strate	es an overview of information systems from an organization egic role of information systems and information technology sion-making, and electronic commerce.							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
Information Technology								
ITCS	425	Web Engineering	2	2	3	ITMS 205 AND ITCS 327		
course is t	to study re of we	cations are complex systems; therefore, a systematic approa the concepts, methods, and techniques needed for developin b-based information systems, web system development phase	ng web	-based	d applica	ations. Topics covered: concepts and		
ITCS	426	3D Graphics	2	2	3	ITCS 307		
ITCS	427	Mobile Computing	2	2	3	ITCS 221 AND ECTE 329		
imparts kr	nowledge g. The co	over the concepts and technologies of mobile computing suce of mobile communication architectures and related communications also covers the mobile applications development tools are the mobile applications development.	nication	n proto	cols in	addition to location management and		
ITCS	428	Wireless Systems	3	0	3	ITCS 322		
ITCC	T 421	Introduction to Data Application	1 2	٦	١ ،	ITCC 222		
ITCS		Introduction to Data Analytics troduce students to data analytics and equip them with some	2 o of its	2 basis r	3 oringinle	ITCS 323		
techniques cleaning;	s, and to data stor tools. In	ools they need to deal with various facts of data analytics. To rage in relational and non-relational stores; data governance addition, this course would enable students to identify, locat	opics the e, data a	at will analysi	be cove s using	ered include data formats, loading, and supervised and unsupervised learning using		
ITCS	433	Database Administration I (ODBA - 3)	2	2	3	ITCS 334		
		students critical knowledge and expertise on administrating t udes: installing Oracle Database 11g, controlling the databas						
ITCS	434	Database Administration II (ODBA - 4)	2	2	3	ITCS 433		
		se provides critical information on Diagnostic Resources, Glob user Errors. It also provides details on monitoring and Manag						
ITCS	435	Database Administration II	2	2	3	ITCS 336		
		es critical information on diagnostic resources, globalization It also provides details on maintaining and management of m						
ITCS	441	System Administration II	2	2	3	ITCS 341		
based on and securi	custome ity/foren	es critical knowledge and experience for IT professionals. So r requirements, install, configure and maintain devices, PCs a sics, properly and safely diagnose, resolve and document co also provide appropriate customer support; understand the	and sof	tware	for end are and	users, understand the basics of networking software issues while applying troubleshooting		
ITCS	442	Virtualization	2	2	3	ITCS 335		
responsibl	le for ma	gned primarily for IT professionals who have some experient anaging storage servers and computing elements by using NO ute options that are available and applicable to NOS.						
ITCS	443	Security Services	2	2	3	ITCS 404		
environme issues with Services (A This cours	Instructor-led course teaches IT professionals how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with NOS. Additionally, this course teaches students how to deploy other Active Directory server roles, such as Active Directory Federation Services (AD FS) and Active Directory Certificate Services (AD CS).  This course is primarily intended for existing IT professionals who have some AD DS knowledge and experience and who aim to develope knowledge about identity and access technologies in NOS.							
ITCS	444	Cloud Services Implementation	2	2	3	ITCS 442		
componen	nts, such	es IT professionals how to provide and manage services in cl as virtual networks, virtual machines, containers, web and r anage cloud identity, and configure cloud identity integration	mobile a	apps, a	and stor	age in the cloud. Students also will learn how		
ITCS	452	Advanced Mobile Computing	2	2	3	ITCS 427		
different v emphasize course will	This course will provide students with both broad and in-depth knowledge, and a critical understanding of advanced mobile computing from different viewpoints: infrastructures, principles and theories, technologies, and applications in different domains. In addition, this course emphasizes concepts pertains to Mobile Adhoc Network and Wireless Sensor Network and different applications based on routing protocols. The course will provide an advanced in-depth overview of the mobile computing subject area, including the latest research. This course aims at the discovery of comprehensive and important issues in mobile computing and communications.							

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
		Information Tech	nnolog	У					
ITCS	499	Major Project	0	6	3	IERM 498 AND ETHC 392			
member. A construction	All stages on of equ	quired to select a theoretical and/or a practical problem related to select a theoretical and/or a practical problem related to project development should be emphasized including project, the student must suppose the project, the student must suppose the project, the student must suppose the project.	oblem	identifi	cation,	library search, planning, design and/or			
ITOT	510	Data Management	3	0	3				
effective in application	This course explores the importance of Data Management in the in IoT, and how it can influence behavior. Data management is critical for effective interaction between layers, products, and devices in the Internet of Things. Students are expected to design and implement IoT applications that manage big data, streaming data, and/or distributed data. This course covers algorithms/ techniques for specific patterns for distributed processing on the devices as well as techniques for fault-tolerant data processing.								
ITOT	511	IoT Protocols and Architectures	3	0	3				
will examir in-depth d	ne the la iscussior	es specialist knowledge in networking protocols and architectest protocols and protocol stacks for low power wireless nence of protocols and algorithms at various layers of the networects unique to IoT.	tworkir	ng in b	oth sho	rt-range and long-range settings. It will include			
ITOT	512	Communications Interfaces	3	0	3				
and interco describe the management ITOT This course application	onnectivine conce ent, IoT 513 e focuse s, IoT so	escribe the advanced concepts of Internet of Things (IoT) or ity. The course covers IoT communication interfaces applied opts of IoT networking, IoT Devices connectivity, advanced I routing on communication interfaces, thread architecture and Security in IoT s on advanced topics of Internet of Things (IoT) security an eccurity and privacy issues become major concerns. The cour	for Ma oT net od mob 3 d priva	echine working ile netwood 0 cy cha	to Mach g conce vorking 3 lenges.	ine (M2M) scenarios and related services and pts such as resource identification and  With IoT being deployed in various			
ITOT		nd system perspectives.  IoT Application and Design	3	0	3				
This course	e covers nd other oline cor	the emerging concept of Internet of Things (IoT) systems v r objects, known as IoT based solutions. The course will focu	vhich c	oncent	rates o				
advanced I	knowled y to delv	I rtation in Internet of Things (IoT) is a comprehensive and rege and skills in the rapidly evolving field of IoT. This course re deeply into IoT technologies, applications, and challenges	serves	as the	pinnac	gram designed to equip students with e of the master's degree, offering students the			
ITRD	498	Research and Development in Information Technology	3	0	3	Completion of at least 90 credits			
projects. T Science. Pa	he cours articular sign and	es knowledge and skills in useful research and development se helps the students to plan and execute their research and focus of the course is to enable students to do literature red to write their proposed project and final report. It also fam	l develo view, to	opmen o formu	t projeculate the	ts in Information Technology or Multimedia eir problem statement, to conceptualize their			
		Multimedia	а						
INTR	442	BSDSM Internship	0	12	6	Completion of at least 90 credits			
INTR	464	BSMS Internship	0	0	3	Completion of at least 90 credits			
INTR 464 BSMS Internship 0 0 0 3 Completion of at least 90 credits  In Today's turbulent economic environment, a country workforce is increasingly pivotal to business success. Stemmed from the desire and sense of responsibility that Ahlia University has against the society and their own students, and as part of their vision, of being leaders in the market oh higher education, they do understand the need to invest in their capital made of partially their students in order to equip the market with talented workforce. Based on INTR 464 course was introduced, representing a structured opportunity to incorporate academic, professional and personal skills development which enables the student to gain a planned and directed learning experience. It enables the student to integrate knowledge gained through their classroom learning with the competencies made available through actual experience in a professional setting. The internship programme requires a minimum of 240 hours of work at the internship worksite. Students will receive academic credit after a successful completion of the programme. The numbers of credits that are earned by the student as a result of successful completion of the internship programme are 3 credits.  ITMS 201 Introduction to Multimedia Systems 3 0 3 ITCS 101									
relevant to developme	the stuent, and	es on the theories, elements, and hardware/software compoind dy and construction of multimedia systems such as digital in interactive presentations. Overall, the aim of the course wor g from basic concepts and fundamentals to more advanced	nage ed uld be t	diting, to cove	digital s r all asp	ound, and video editing, animation, web page pects related to multimedia systems and			

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Multimedia	а					
ITMS	205	Internet Applications and Services	2	2	3	ITCS 101		
through su	uperior to	s on designing and implementing websites using HTML5 and echniques to get the most out of their experience by teachin learn the new features of HTML5 and CSS3 styles.						
ITMS	207	Graphics Design I	2	2	3	ITMS 201		
This course will cover the Graphic design elements and design principles. By applying visual hierarchy and page layout techniques, designers use typography and pictures to meet users' specific needs and focus on the logic of displaying elements in interactive designs, to optimize the user experience.								
ITMS	212	Multimedia Design	3	0	3	ITMS 201		
		range of interactive digital media analysis and design know motion graphics, and 2D animation. It is to cover different						
ITMS	221	Sound Engineering	2	2	3	ITMS 201		
		lain the fundamental concepts of acoustics and the operating $\gamma$ to understand language, the design and implementation of						
ITMS	301	Introduction to Interactive Systems	3	0	3	ITCS 222		
design, ba	sic techr	uces and develops concepts that are central to the design of nologies that are commonly employed, issues of design and s that dominate Information Technology are considered fron	design	suppoi	rt, and e			
ITMS	302	Human Computer Interaction	2	2	3	ITCS 222		
implement of human	ation of psycholo	nded to introduce the concepts of human-computer interaction interactive computing systems for human use and with the supply, human information processing, user interface design prifferent purposes.	study o	f majo	r pheno	mena surrounding them. It will cover theories		
ITMS	305	Video Production	2	2	3	ITMS 212		
digital vide	eo. The f	ideo production, including the techniques and the aesthetics focus of the course is dedicated to video editing (Computer Easpects within the industry.						
ITMS	307	Multimedia Softwares I	2	2	3	ITMS 201 OR ITMS 205		
packages s Photoshop	such as t , adjusti	over the concepts and technologies as two dimensional: one the world of digital video, video-capture card, a quick tour or ng color in images, automatically fixing colors, working with ess theoretically.	f Premi	ere, Pr	emiere	editing video and transitions, a quick tour of		
ITMS	313	Game Development I	2	2	3	ITCS 221 AND ITCS 209		
types, logi loop, rules effect of th implement	c flow co s, and ga neir diffe c 2D gam	uces the principles and essential concepts of game programmentrol, conditions, loops, file I/O, functions, classes and objectime object design and implementation. During the course, strences, evolution, and limitations, on game programming. These through the gained tools and techniques. Students will epoment framework C# to design and develop a computer gament framework C# to design and develop a computer gament.	cts. The adents hrough xperier	e cours will be this c	se explo e introd ourse, t	ores game-related concerns such as the game uced to modern game platforms, and the he student will be able to develop and		
ITMS	316	Photography Techniques	2	2	3	ITMS 201		
This cours output.	e will int	roduce the fundamentals of photographic image-making usi	ng digit	tal cam	neras, a	nd specialized software tools to produce digital		
ITMS	317	Graphic Design II	2	2	3	ITMS 207		
		on the knowledge gained from a previous course (ITMS 207 design. The course focus mainly on two-dimension graphics						
ITMS	321	Electronic Media and Law	3	0	3	ITMS 201		
such as: b	roadcast	classical techniques and paradigms used in rules and regulating, copyright, advertising, etc. Students will acquire the receively field.						
ITMS		Web Applications Design	2	2	3	ITMS 205 OR ITCS 205		
		uces students to the basic concepts and terminology of dyna is that collectively make up dynamic web sites: client side sci						
ITMS	<u> </u>	Multimedia Softwares II	2	2	3	ITMS 307		
	professi	on the knowledge gained from a previous course (ITMS 307 onal software's. The course will cover vector graphics and so are						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
	•	Multimedi	a						
ITMS	333	Dot NET 2.0 Developments (MCTS - 1)	2	2	3	ITCS 222			
Software I	Developr	es students with the knowledge and skills needed to undersinent, Web Applications, Desktop Applications, Databases, BuCSS, Code by Using JavaScript.							
ITMS	334	Data Access with Visual Studio 2005 (MCTS - 2)	2	2	3	ITMS 333			
Microsoft \ ADO.NET	The course provides students with the knowledge and skills to develop data-access applications by using the Microsoft .NET Framework and Microsoft Visual Studio 2005. This course also describes how to access data and how to implement database functionality by using Microsoft ADO.NET 2.0 and Microsoft SQL Server 2005. It describes how to locate, edit, and transform XML by using XPath and Extensible Style sheet Language for Transformations (XSLT).								
ITMS	335	Web Programming I	2	2	3	ITCS 221			
Software I	Developr	es students with the knowledge and skills needed to underst ment, Web Applications, Desktop Applications, Databases, Bu CSS, Code by Using JavaScript.							
ITMS		Web Programming II	2	2	3	ITMS 335			
programm using HTM	ning skills 1L5/CSS	es an introduction to HTML5, CSS3, and JavaScript. This cous. This course is an entry point into both the Web application B/JavaScript to implement programming logic, define and use te user input, store data, and create well-structured applicates.	n and W e varial	/indow	s Store	apps training paths. The course focuses on			
ITMS	341	Digital Marketing Technologies	2	2	3	ITMS 325			
course will During the optimization	I help the course, on; the t	se, the students will acquire the ability to develop website place participant execute Keyword search, understand the tools students will actually plan SEO of a website, set up the SEC ools for Webmaster as well as Mobile SEO. In addition, during in social media and how to execute advertising campaigns	to find proce ng this	keywo ss; lea course	rds (pai n abou , the sti	id and free); and learn Google Adwords. t Content Marketing, on-page, and off-page udents will learn about the opportunities for			
ITMS	347	Video Post Production	2	2	3	ITMS 327			
a better un experience	nderstan e, studer	uces students to the basic concepts and terminology of video ding of how stories are constructed in the editing room usin hts will learn advanced editing techniques. To further enhancing emphasis is placed on post-production techniques that im	g vario ce proje	us edit ects, st	ing styl udents	es. Through demonstrations and hands-on will create animated motion graphics using			
ITMS	350	Desktop Publishing	2	2	3	ITMS 327			
desktop p	ublishing	uces students to the basic concepts and terminology of desk design and production techniques. Through demonstrations ublications							
ITMS	351	Graphics and Multimedia	2	2	3	ITMS 205			
packages	such as	over the concepts and technologies as two dimensional: one the world of digital video, video-capture card, a quick tour o ith vector graphics							
ITMS	405	Advanced Web Applications Design	2	2	3	ITCS 325 OR ITMS 325			
learning a	bout que	on the knowledge gained from a previous course (ITCS 325 erying both on paper and via SQL, and then, through a succeractive data-driven site via the use of an integrated website	ession o	of proje	ects, lea	rn how to apply this understanding to the			
ITMS	418	Computer Animation I	2	2	3	ITMS 317			
animation	. To narr	the theory and concepts of computer animation, also the corate a story, students will apply computer generated lighting uses along with programming techniques, such as, ActionScr	, backg	round,	mask,	tweened animations, etc. Computer animation			
ITMS	421	Web Programming II	2	2	3	ITMS 335			
programm using HTM	ning skills 1L5/CSS	es an introduction to HTML5, CSS3, and JavaScript. This cous. This course is an entry point into both the Web application B/JavaScript to implement programming logic, define and use te user input, store data, and create well-structured applicate.	n and W e varial	/indow	s Store	apps training paths. The course focuses on			
ITMS	426	3D Graphics Softwares	2	2	3	ITMS 327			
animation	. Studen	uces students to the basic concepts and terminology of 3D c ts will have a better understanding of the different discipline a foundation for 3D Animation and 3D Game Development							
ITMS	432	Game Development II	2	2	3	ITMS 313			
APIs. The	students	es on gameplay interaction, artificial intelligence, networking s will develop a critical approach to the study of gameplay, in plement 3D games through the gained tools and techniques.	nteracti						

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Multimedia	a					
ITMS	433	Web App. Tech. with Visual Studio 2005 (MCTS - 3)	2	2	3	ITMS 334		
	cuses o	es students with the knowledge and skills to develop Microson advanced user interfaces, Web site functionality, and imples.						
ITMS	434	Web App. Tech. with Visual Studio 2005 (MCTS - 4)	2	2	3	ITCS 433		
The course provides students with the knowledge and skills to develop Microsoft Windows Forms applications using Microsoft Visual Studio 2005. The course focuses on building menus, providing user assistance and enhancing usability, creating of consistent applications using dialogs and forms inheritance and performing of asynchronous tasks using Background Worker component.								
ITMS		Web Programming III	2	2	3	ITMS 421		
be on codi	ng activ	uces students to develop advanced ASP.NET MVC application ities that enhance the performance and scalability of the Weo that students know when each should/could be used.						
ITMS	436	Multimedia Applications	2	2	3	ITMS 426		
	ed to	oduces the principles and essential concepts of Mu implement (theoretically and practically) the gained tools an ation						
ITMS	437	Cloud Services Development	2	2	3	ITMS 435		
This course Students w	e introd vill also	uces students to learn how to design and develop services the learn how to develop and deploy services to hybrid environm	nat acco nents, i	ess loc ncludir	al and r	emote data from various data sources. emises servers and Windows Azure		
ITMS	438	Computer Animation II	2	2	3	ITMS 418		
This course will provide an introduction to Motion Graphics which will include commercial, broadcast, corporate, training, trade show, titles, logo reveals and music videos. The course will cover lectures and demonstrations using appropriate software. This course will cover a broad interpretation of potential applications of the technology while focusing on the strengths of motion theory, composition and other basic elements of design.								
ITMS	445	Modelling and Animating characters in 3D	2	2	3	ITMS 426		
Students v	vill have	uces students to the basic concepts and terminology of 3D c a better understanding of the different disciplines that collect characters modeling and animating						
ITMS	447	Animation Film Development	2	2	3	ITMS 418		
storyboard	ling, blo	uces students to the fundamentals of animation film develop cking, and character creation. It will also give students adva egrated compositor, and the Sequence Editor.						
ITMS	499	Major Project	0	6	3	ETHC 392 AND IERM 498		
supervisior planning, o	n of a fa design a	loma student is required to select a theoretical and/or a practiculty member. All stages of project development should be and/or construction of equipment upon completion of the prothe project and make an oral presentation.	emphas	sized in	cluding	problem identification, library search,		
ITMS	522	Multimedia Information Systems Overview	3	0	3			
Multimedia Information Systems are concerned with the capture, storage and presentation of information in a variety of forms, including text, image, video and sounds. This course provides an introduction to the principles and practices of multimedia information systems, their authoring and their application to management in organizations with particular focus on: (1) developing skill in the design and management of information systems projects; (2) employing evaluation techniques for multimedia authoring systems and multimedia user interfaces; and (3) developing an understanding of the current state of multimedia applications and their impact on organizations. Students learn how to plan, organize and evaluate multimedia information technologies as well as to implement multimedia information systems using multimedia authoring tools.								
ITMS	524	Multimedia Engineering	3	0	3	ITMS 522		
X language	es (XSL1	Type of the course. The course and data formats. The course multimedia systems, architectures and data formats. The course of the course.						
ITMS	598	Project Dissertation in Distributed Systems and Multimedia	0	6	3			
ITMS	599	Dissertation (in Distributed Sys & Multimedia)	0	24	12			
		COLLEGE OF MEDICAL & H	EALTH	SCIE	NCES			
		Physiothera	ру					
PHRM	498	Research Methods in Physiotherapy	3	0	3	PHTH 325 AND Completion of at least 90		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Physiothera	ру			
The main t	topics co	tory course on research methodology which is delivered thro overed are: basic research methods in the health sciences, u on skills and professional ethics.				
PHTH		Anatomy	2	2	3	
PHTH	102	Physiology	2	2	3	
PHTH	103	Functional Anatomy & Physiology II	2	2	3	
PHTH	104	Electrotherapy	2	2	3	
	101	Electionicapy				
PHTH	105	Movement Science & Biomechanics	3	0	3	
PHTH	121	General Anatomy	2	2	3	
concepts c	of anaton sic func	d structure of the human body oriented in system basis. The mical terms and references of motion, gross anatomy of hun tion, vascular, nervous, musculo-skeletal, hearing, vision and tems.	nan boo	ly cells	, tissue	s,
PHTH	201	Orthopedic Physiotherapy	2	2	3	
PHTH	202	Cardiopulmonary Physiotherapy	2	2	3	
PHTH	203	Rheumatology, Sports & Gynecology Physiotherapy	2	2	3	
PHTH	204	Biochemistry	3	0	3	
PHTH	205	Neurology Physiotherapy	2	2	3	
PHTH	206	Pediatric Physiotherapy	2	2	3	
PHTH	207	Exercise Physiotherapy	3	0	3	
PHTH	208	Basic Manipulative Procedures	2	2	3	
DUTU	200	lar i i i i i i i i i i i i i i i i i i i	1 ^	42		
PHTH	209	Clinical Practice	0	12	6	
PHTH	211	General Physiology	2	2	3	PHTH 121
of differen circulation	t humar , exercis	on of body structures are taught on system basis. The cours n cells, tissues, organ and systems. This includes abnormal fi se physiology, musculo-skeletal mechanism, The course includes description of normal biochemical refere	unction	s, imm	une sys	
PHTH	212	Musculoskeletal Anatomy & Physiology	5	2	6	PHTH 121
capsules, a of function	articular nal anato	uce students to anatomy, physiology, biomechanics and patl cartilages, nerves, muscles and tendons. This will include or amy with clinical correlation in physical diagnosis and medica pects of the organ systems.	verview	of ger	neral tis	sue structure followed by specific body region
PHTH	213	Introduction to Exercise Physiology	3	0	3	PHTH 121
involved in neurophys functions, response t	n creatio siologica intra-mo so stress	bes the series of physiological functions, reactions and bioch n, maintenance and malfunction of human movements. The l transmission, neural control, neuromuscular reaction, musc uscular enzymatic process, the mechanism of muscle fatigue factors, muscular adaptation to force and endurance trainin physiology and function.	course le fiber and re	includ type a covery	les and r, muscu	ular

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	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Physiothera	ру					
PHTH	214	Introduction to Biochemistry	3	0	3	PHTH 121		
of chemica	al events	nciples of biochemistry and molecular biology, emphasizing in living systems in terms of metabolism and structure-fundant molecules.						
PHTH	220	Foundations of Therapeutic Exercise	2	2	3	PHTH 211 AND PHTH 212 AND PHTH 213		
This course is designed to teach the students on the basic principles of therapeutic exercise. Emphasis is given on assessment and treatment protocols in the different fields of therapeutic exercise particularly range of motion, progressive resistive, stretching, peripheral joint mobilization exercise, McKenzie techniques, nags and snags, The course also focus on the principles of soft tissue healing and the protocols that are necessary for proper therapeutic exercises. The course is reinforce with practical components.								
PHTH	221	Biomechanics	3	0	3	PHTH 212		
description human tra diagramma	Introduction to the application of laws of physics on human body movements. The course includes description of static and dynamic laws on human motion, levers and types of forces acting on human transfer and function, types of human joints, mechanics of therapeutic exercises, abnormal force application and injury mechanism, diagrammatic representation and measurement of forces, momentums, action-reaction theories, friction definition and measurement, and biomechanical terms and values.							
PHTH	222	Neuroanatomy & Physiology	2	2	3	PHTH 211 AND PHTH 212		
body move neuro-phys extra-pyra	This course orients the student on the neuro-physiological and neuro-anatomical basis of human body movement, function and motor control of the musculo-skeletal system. This include topics in neuro-physiology, neuro-transmission, mechanism, cerebral functions and control, pyramidal and extra-pyramidal function, peripheral nerve functions and neuro-muscular transmission, common patho-neuro-physiological conditions, skull and maxillo-facial anatomy and other related topics.							
PHTH		Introduction to Radiology & Pathology	2	2	3	PHTH 212		
The course introduces students to the principles of reading, interpretation and clinical utilization of radiological and laboratory results. The topics include principles of radiological imaging, musculo- skeletal radiology, common orthopedic conditions, radiology, neurological imaging, MRI imaging techniques, CT imaging, biochemical lab investigations, hematological tests and values, histopathology investigations, microbiology techniques, and other topics in radiology and pathology.								
PHTH	224	Principles of Electrotherapy lectrotherapy modalities are discussed in this course including	2	2	3	PHYS 101		
contents of electrical power, flow, measurement, electron theory and principle, energy generation, emission, transmission and radiation. Building on these concepts, the course teaches the physiological effects and interaction of the electrical and non-electrical sources of energy pertaining to different human body tissue. The means to deliver different electrotherapy modalities are included with their indication, effects and contra-indications.  PHTH 225 Psychological Aspects of Disability 3 0 3 PHTH 212  This course aims to prepare participant with the social and psychological aspects of disease and								
This course	e aims t	Psychological Aspects of Disability o prepare participant with the social and psychological aspe	cts of d	isease	and			
This course disability. <sup>-</sup> rehabilitati	e aims t The cou ion, den	Psychological Aspects of Disability o prepare participant with the social and psychological asperse includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-eco	cts of d and ad onomics	isease aptations of dis	and on to dis seases a	sease, disability and motivation of nd disability, and other related topics.		
This course disability. <sup>-</sup> rehabilitati	e aims t The cou ion, den	Psychological Aspects of Disability o prepare participant with the social and psychological asperse includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-eco	cts of d and ad onomics	isease aptations of dis	and on to dis seases a	sease, disability and motivation of		
This course disability. Tehabilitati PHTH This fully penvironme equipment application	e aims to The coursion, denied 226 practical ents. The tag and mas, indivi	Psychological Aspects of Disability o prepare participant with the social and psychological asperse includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-eco	cts of d and ad conomics 0 ettings ce, phy relation herapy,	isease aptation of disappears	and on to disceases a 6 apy atient a l report	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
This coursed disability. Tehabilitati  PHTH  This fully penvironme equipment application	e aims to The coursion, denied 226 practical ents. The tag and mas, indivi	Psychological Aspects of Disability o prepare participant with the social and psychological asperse includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-economic linear practice  Clinical Practice clinical course aims to introduce the students with clinical secourse starts with training in patient handling and assistant achinery operation and maintenance, the therapist-patient indual and group gymnastics and therapeutic training, hydrotic	cts of d and ad conomics 0 ettings ce, phy relation herapy,	isease aptation of disappears	and on to disceases a 6 apy atient a l report	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
This coursi disability. <sup>1</sup> rehabilitati PHTH This fully penvironme equipment application attached n	e aims to The coursion, denied 226 practical ents. The ts and mans, individual course are the co	Psychological Aspects of Disability of prepare participant with the social and psychological aspects includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-ecological Practice  Basic Clinical Practice clinical course aims to introduce the students with clinical secourse starts with training in patient handling and assistantiachinery operation and maintenance, the therapist-patient indual and group gymnastics and therapeutic training, hydrotic documents, safety issues in physiotherapy, patient motivation	cts of d and ad pnomics 0 ettings ce, phy relation herapy, n and f	isease aptation of disease 12 and siother ship, p clinica ollow-	and on to dis eases a 6 apy atient a I report	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
This course disability. Tehabilitati PHTH This fully penvironme equipment application attached n	e aims t The cou- ion, denial 226 practical ents. The ts and mas, indivi- medical of 301	Psychological Aspects of Disability o prepare participant with the social and psychological asperse includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-economic process.  Basic Clinical Practice clinical course aims to introduce the students with clinical secourse starts with training in patient handling and assistant achinery operation and maintenance, the therapist-patient indual and group gymnastics and therapeutic training, hydrotic documents, safety issues in physiotherapy, patient motivation.  Physiotherapy Evaluation & Diagnostics	cts of d and ad pnomics 0 ettings ce, phy relation herapy, n and f	isease aptatics of distance aptatics of distance and siother ship, p clinica ollow-u	and on to dispeases a 6 appy attent a all reportup and 0 3	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
This course disability. Tehabilitati PHTH This fully penvironme equipment application attached n PHTH PHTH	re aims to the coulon, denion, denion, denion, denion, denion denical cents. The ts and mas, indivinedical coulons and mas, and m	Psychological Aspects of Disability of prepare participant with the social and psychological aspects includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-ecological Practice  Basic Clinical Practice  clinical course aims to introduce the students with clinical secourse starts with training in patient handling and assistantial and group gymnastics and therapeutic training, hydrotidicuments, safety issues in physiotherapy, patient motivation  Physiotherapy Evaluation & Diagnostics  Functional Anatomy & Physiology	cts of d and ad pnomics 0 ettings ce, phyrelation herapy, n and f	isease aptatics of dissipations of the solutions of the s	and on to discesses a 6 appy atient a all reportup and 0 3	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
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This course disability. Tehabilitati PHTH This fully penvironme equipment application attached nehtth  PHTH  PHTH  PHTH  PHTH	e aims to The coulinn, denion, denion, denion, denion, denion denion, denion denion, denion denion, denion	Psychological Aspects of Disability of prepare participant with the social and psychological aspects includes topics of personality types, personality changes all and acceptance phases of disability, micro-and macro-ecological course aims to introduce the students with clinical secourse starts with training in patient handling and assistant achinery operation and maintenance, the therapist-patient idual and group gymnastics and therapeutic training, hydrotic documents, safety issues in physiotherapy, patient motivation in Physiotherapy Evaluation & Diagnostics  Functional Anatomy & Physiology  Therapeutic Modalities I  Psychological Aspects of Disability	and adonomics 0 ettings ce, phyrelation nerapy, n and f 2  3	isease aptatics of distance of	and on to dispeases a 6 appy atient a all reportup and 0 3 3	sease, disability and motivation of and disability, and other related topics.  PHTH 211 AND PHTH 212  ssessment principles, electrotherapy ing and documentation, reading and filing of		
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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite		
		Physiothera	ру					
PHTH	309	Orthopedic Medicine & Surgery	2	2	3			
PHTH	310	Pharmacology*	3	0	3			
PHTH	311	Occupational Health & Ergonomics	2	2	3			
PHTH	312	Orthonodic Sports & Phaymatalagy Physiatharany	2	2	3	PHTH 221 AND PHTH 223 AND PHTH 226		
		Orthopedic, Sports & Rheumatology Physiotherapy			_			
The principles of physiotherapy for musculo-skeletal, sports and rheumatological diseases and injuries are taught. Joints and bone diseases are presented in systematic approach followed by physiotherapy assessment, indications and contra-indications of physiotherapy treatment. Pre and post-operative physiotherapy procedures are discussed for orthopedic surgical cases. Practical training in assessment techniques, gait training, muscle testing and lower extremities orthotics is included.								
PHTH	313	Manipulative Procedure	2	2	3	PHTH 221 AND PHTH 223 AND PHTH 226		
This course includes the anatomical, biomechanical and physiological basis of orthopedic manipulative procedures. This includes indications, contra-indications, physiological and therapeutic effects of the common manipulative procedures in a systematic approach. The course will also include introduction in mobilization theory, upper extremities techniques, lower extremities, cervical spine, thoracic spine techniques, lumbar and sacro-iliac mobilization and orientation in common schools of thought in this field. Practical training modules are included to give the students experience in handling such manoeuvres.								
PHTH	314	Principles of Therapeutic Exercise	2	2	3	PHTH 213 AND PHTH 221 AND PHTH 226		
This course is designed to teach the students on the basic principles of therapeutic exercise. Emphasis is given on assessment and treatment protocols in the different fields of therapeutic exercise particularly range of motion, progressive resistive, stretching, peripheral joint mobilization exercise, McKenzie techniques, nags and snags, The course also focus on the principles of soft tissue healing and the protocols that are necessary for proper therapeutic exercises. The course is reinforcing with practical components.								
PHTH	315	Clinical: Orthopedic Medicine & Surgery	2	2	3	PHTH 223 AND PHTH 226		
		ic and rheumatological diseases and injuries are included in	this co	urse. T	he mai	n topics are fracture types and complications,		
joint arthri injury type topics. The	tis class s and m	nd open reduction techniques, ification and diagnosis, systemic inflammatory diseases, auto lanagement, total joint replacement, congenital musculo-ske is reinforced with clinical rounds with the orthopedic consult	letal di	seases	, soft tis	ssue and sports injuries and other related		
PHTH	316	Clinical: Orthopedic, Sports & Rheumatology Physiotherapy	0	8	4	PHTH 223 AND PHTH 226		
skeletal, sı assessmer	oorts and nt princip	ourse introduces the students with clinical skills in assessmend rheumatological diseases and injuries including surgeries. In all states and group gymna states, manipulations applications, individual and group gymna states and other topics in fields of musculo-skeletal, sport	This co stics ar	urse fo nd ther	cuses c apeutic	on therapist-patient relationship, patient training, mobilization techniques, post-		
PHTH		Essentials of Neuroanatomy & Neurophysiology	2	2	3	PHTH 211 AND PHTH 212		
the muscu and extra-	lo-skelet pyramid	the student on the neuro-physiological and neuro-anatomic cal system. This include topics in neuro-physiology, neuro-tra al function, peripheral nerve functions and neuro-muscular t anatomy and other related topics.	ansmiss	ion, m	echanis	sm, cerebral functions and control, pyramidal		
PHTH	321	Theories of Cardiopulmonary Physiotherapy	2	2	3	PHTH 226		
followed b	y assess for cardi	hysiotherapy for cardio-pulmonary diseases are taught. Resp ment, indications and contraindications of physiotherapy tre o-pulmonary surgical cases. Practical training in assessment post-operative heart rehab are included.	atment	. Pre a	nd post	-operative physiotherapy procedures are		
PHTH	322	Medical Physiotherapy	3	0	3	PHTH 226		
etiology, p	athophy	gned to teach the knowledge of the different medical conditi siology, epidemiology, symptomatology of conditions such a and geriatric conditions. Medical and physiotherapy manago	s burns	, ampı	utation,	cancers, AIDS, immobilization syndrome,		
PHTH	323	Clinical: Cardiopulmonary Medicine & Surgery	2	2	3	PHTH 226		
treatment. exchanges intensive of	PHTH 323 Clinical: Cardiopulmonary Medicine & Surgery 2 2 3 PHTH 226  This course orients the student on common cardiac and pulmonary diseases with the focus on assessment, diagnostic procedures, pathology and treatment. The main topics in the course include principles of cardio-pulmonary and circulatory physiology and anatomy, pulmonary gases exchanges, ischemic heart diseases, chronic obstructive pulmonary disorders (COPD), allergic pulmonary diseases, cardio-pulmonary treatment in intensive care units, common pulmonary surgical procedures, principles of heart surgeries, and other related topics. The course is reinforced with clinical rounds with the cardiologist/pulmonologist consultants and senior physiotherapist.							
PHTH	324	Clinical: Cardiopulmonary & Medical Physiotherapy	0	8	4	PHTH 226		
the course operative of	is that t cardio-p	es practical application of cardiopulmonary and medical phys the student masters such techniques and be competent in ca ulmonary rehabilitation, ischemic heart disease physiotherap piratory exercise techniques and applications and related top	ardio-pı y, post	ulmona ural dr	iry reha ainage	bilitation. Topics of the course includes post- techniques, COPD rehabilitation, ICU patient		

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite
		Physiothera	ру			
PHTH	325	Organization & Ethics in Physiotherapy	3	0	3	PHTH 226
physiother settings, h economics physiother	rapy. The lealth ca s, private rapy pro	aims on orientation of the student in topics related to health e main topics in the course are a historical prospective of he re delivery in non-clinical settings, health care delivery in rul funding, delivery of health care, patient rights, medicolegal fession in the her related topics.	alth car ral regio	e deliv ons, ec	ery, ad onomic	ministration of acute and rehabilitation s of the health care system, health insurance
PHTH	401	Clinical Practice: Orthopedic Physiotherapy	0	6	3	
PHTH	402	Clinical Practice: Cardiopulmonary Physiotherapy	0	6	3	
PHTH	403	Therapeutics Modalities	2	2	3	
PHTH	404	Research Methodology I	3	0	3	
PHTH	405	Organization & Delivery of Health Care	3	0	3	
PHTH	406	Clinical Practice: Neurological Physiotherapy	0	6	3	
PHTH	407	Clinical Practice: Pediatric Physiotherapy	0	6	3	
PHTH	408	Clinical Practice: Rheumatology,Sports&Gynecology	0	6	3	
PHTH	409	Research Methodology	3	0	3	STAT 201
collection a techniques PHTH	and ana s and otl 410	e mainly working on and completing the graduation researchysis, writing up and presentations. The course includes worker related topics. The presentation of the graduation resear Peripheral & Spinal Mobilization	kshops rch will 2	in stati be don 2	stical so the in the	
PHTH	411	Ethical & Professional Issues in Physiotherapy	3	0	3	
PHTH	412	Theories of Neurological Physiotherapy	2	2	3	PHTH 222 AND PHTH 226
peripheral indications	nervous and co	es principles of physiotherapy for neurological diseases and is system diseases are presented in systematic approach follogitarions of physiotherapy treatment. Pre and post-opining in assessment techniques, neurophysiological testing,	wed by erative	asses physic	sment, otherapy	
PHTH	413	Clinical: Neurological Medicine & Surgery	2	2	3	PHTH 222 AND PHTH 226
of neuro-p	atholog head inj	es topics in diagnosis, assessment, clinical presentations of c	pheral r	nerve s	ystem (	diseases, spinal cord diseases and injuries,
PHTH	414	Clinical: Neurological Physiotherapy	0	8	4	PHTH 222 AND PHTH 226
training in neurologic	cases o	odule that includes training of the students on neurological problems, paraplegias, spinal cord injuries, Parkinson's continuations and other related topics. By the end of the course the crological conditions.	disease,	progr	essive r	neurological diseases, post-operative
PHTH	415	Introduction to Pharmacology	3	0	3	PHTH 214
introductio	n to dig	n pharmacology aims to introduce students to pharmaceutic estive system physiology and mechanisms, major drug grou ations, analgesics and their pharmacological effects, pharma	ps, acti	ons an	d preca	utions of NSAID, central muscle relaxants,
PHTH	421	Clinical: Pediatric Physiotherapy	0	8	4	PHTH 222 AND PHTH 226
	apy tecl	tical course in a clinical settings aims to train students in peo nniques for patient with cerebral palsy, neuro-developmenta s.				

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Course	Code	Course Title	Lec	Lab	Cr	Prerequisite			
	Physiotherapy								
PHTH	422	Theories of Pediatric Physiotherapy	2	2	3	PHTH 222 AND PHTH 226			
juvenile dis followed by	The course includes principles of physiotherapy for pediatric diseases and injuries. Pediatric and juvenile diseases, congenital and acquired malformations are presented in systematic approach followed by assessment, indications and contra-indications of physiotherapy treatment. Pre and post-operative physiotherapy procedures are discussed for pediatric surgical cases. Practical training in assessment techniques, cerebral palsy testing, Bobath and PNF techniques are included.								
PHTH	423	Clinical: Pediatric Medicine & Surgery	2	2	3	PHTH 222 AND PHTH 226			
topics in the	The course covers diagnosis, clinical presentation and treatment of common pediatric cases. The main topics in the course are introduction to genetics, embryology, intra-uterine malfunctions, neonatology, cerebral palsy types and diagnosis, Erb's palsy and other peripheral neonatal injuries, orthopedic pediatric developmental disorders, normal physiological developments and common pediatric surgical conditions. The course is reinforced with clinical rounds with the pediatric consultants and senior physiotherapist.								
PHTH	424	Clinical: Community Physiotherapy	0	6	3	PHTH 315 AND PHTH 323			
service del course will	This is a fully practical course in a community based clinical settings that address physiotherapy service delivery in various community-based settings such as domiciliary and fixed location private practice, schools and community centres. The course will cover the process of developing professional physiotherapy service, health promotion and how to adapt physiotherapy services in the community according to cultural and socio-economic needs.								
PHTH	425	Occupational Health & Ergonomics in Physiotherapy	2	2	3	PHTH 325			
convention workplace injuries, m	This course trains student on common role of the physiotherapist in communities other than conventional hospitals. This include the function of the physiotherapist in prevention of injuries, workplace design and analysis, mechanism of repeated minor trauma, overuse and stress related injuries, muscle and other soft tissue failure and injury, the concept of good posture, principles of patients and non-patients health education and motivation and other related topics.								
PHTH	499	Major Project	0	6	3	STAT 201 AND PHRM 498 AND Completion of at least 90 credits			
	ach student will be required to select and complete a research project in the field of physiotherapy, under the supervision of a Faculty member. ssessment will take the form of a written report and an oral presentation.								

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