Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
ASIA-EUROPE	QQB7009	REGIONA	3	English	This course
INSTITUTE		L			enables students to
		SECURIT			understand the key
					issues and
		EUROPE			determinants of
					Europo and the
					role of the region in
					international order
					It deals with
					regional security
					issues from the
					European
					perspective, and
					provides a
					regional- holistic
					perspective
					comprising both
					traditional and non-
					traditional security
					domains. In
					addition, the
					on NATO's military
					and non-military
					onerations

Title Credit Hours Medium of Instruction Course	Contents
ASIA-EUROPE INSTITUTE ASIA-EUROPE INTEGRA TION IN EUROPE INTEGRA TION IN EUROPE INTEGRA	rse the for EU's c an and an ent of the economic economic ion and an since lishment ropean Steel ity in covers a economic ion. This the EU arket, the c and r Union at the ty budget. se starts tical n of early c ion efforts, yses the ading to lishment s sector. It s by g the economic ion and on in the

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
ASIA-EUROPE INSTITUTE	QQD7007	Title ASEAN REGIONA LISM	3	English	Course Contents This course begins by tracing the evolution of regionalism in Southeast Asia and proceeds with introducing students to theoretical frameworks, practical rationales and expected outcomes of regionalism in ASEAN. It overviews normative values associated with the 'ASEAN Way' of conducting regional relations. The course also offers an analysis of ASEAN strategies to maintain ASEAN relevancy in the globalized world. It discusses other ASEAN- related regionalism processes, such as APEC and TPP, in which ASEAN member states
					involved.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
Faculty ASIA-EUROPE INSTITUTE	Module Code	Module Title POLITICA L ECONOM Y OF ASIA- EUROPE RELATIO NS	Credit Hours 3	English	Synopsis of Course Contents
					critical global issues, which are also pursued by the United Nations. These include climate change and global warming.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
ASIA-EUROPE INSTITUTE	QQX7008	COMPAR ATIVE REGIONA LISM	3	English	This course introduces students to the conceptual, theoretical and methodological approaches in the area of comparative regionalism. In addition, it also highlights the problems and pitfalls in comparing regions and regionalism/region alisation processes across the world. The course looks at the various regional organisations around the world, moving beyond the traditional study of regional integration processes and looking at the cooperation and interaction of regional institutions as opposed to within a region. It also provides students with various comparative standpoints of the different regional organisations such as EU, ASEAN, AU, OAS, SCO, SAARC, Pacific Island Forum and
				1	

	Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
	FACULTY OF BUSINESS AND ECONOMICS	AA017006	PUBLIC ECONOM ICS	3	English	#N/A
	FACULTY OF BUSINESS AND ECONOMICS	AA017012	ECONOM ETRICS FOR ECONOM IC ANALYSI S	3	English	#N/A
	FACULTY OF BUSINESS AND ECONOMICS	AA017016	ISLAMIC ECONOM ICS	3	English	#N/A
	FACULTY OF BUSINESS AND ECONOMICS	AA017018	MONETA RY ECONOM ICS	3	English	#N/A
_	FACULTY OF BUSINESS AND ECONOMICS	AA017019	POLITICA L ECONOM Y	3	English	#N/A
_	FACULTY OF BUSINESS AND ECONOMICS	AA047006	GENDER ISSUES IN DEVELO PMENT	3	English	#N/A
_	FACULTY OF BUSINESS AND ECONOMICS	AA047008	ENVIRON MENTAL SUSTAIN ABILITY IN ORGANIS ATIONS	3	English	#N/A

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	CQC7002	ECONOM ICS FOR MANAGE RS	3	English	This course covers economic issues related to managerial decision-making including consumer demand, supply, elasticity, producer' s cost, market structures, aggregate models of macro economy, and government policies including fiscal and monetary policy.

Faculty Mode	ule Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF CQC7	7004 S	STRATE	3	English	This course
BUSINESS					provides students
	IV				with experience in
ECONOMICS		NG			driven strategies
					for the future
					business A focus
					is on developing
					competencies for a
					firm that, through
					strategic
					differentiation,
					leads to
					sustainable
					competitive
					advantage in the
					marketplace.
					Students are
					provided ample
					opportunity to
					develop and
					practice creative
					problem- solving
					and decision-
					making skills to
					roquiromonto of
					today's complex
					market
					environment

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	CQC7007	CORPOR ATE STRATE GY	3	English	This course is designed to expose students to the theory and practice of strategic planning and management. Strategic planning and management involve setting goals and effective execution of strategies to attain the pre-determined goals. The course emphasises on students' ability to think conceptually and develop an effective analytical framework for strategic decision making. The use of real cases allows students to test their ability to identify and solve issues or problems that are strategic in nature.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	CQC7047	OPERATI ONS MANAGE MENT	3	English	This course focuses on functions of operations management related to prediction system, process strategies, layout, inventory management and project management. Related issues and challenges are also discussed. Students are also exposed to tools for decision making purposes.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF	CQC7056	BUSINES	3	English	The aim of this
BUSINESS		S	_		course is to expose
AND		ETHICS,			students with the
ECONOMICS		GOVERN			theoretical
		ANCE			background of
		AND			ethics and
		SUSTAIN			governance in the
		ABLE			context of a
		SOCIETY			business
					environment. The
					course will
					emphasize on the
					complexity of
					ethical frameworks
					in implementing
					ethics in
					organizational
					functions including
					human resource
					management,
					marketing,
					accounting,
					finance, and
					technology.
					Furthermore,
					students will
					analyse local and
					international ethical
					cases to help them
					to improve their
					ability to engage
					with the ethical
					decision-making
					process. As a
					result, students
					should be able to
					docoribo and
					ovaluate the
					implomentation of
					othics and
					dovernance from
					the stakeholder
					perspective This
					course will also
					expose students to
					practice what they
					have learned
					through the
					engagement with

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	EIG2004	FINANCI AL ECONOM ICS	3	English	This course will discuss the topics that relate to financial institutions, asset classes, capital asset pricing model and capital market efficiency. This course will also discuss the valuation of stocks and bonds, as well as the derivative markets

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF	EQB7004	MANAGE	4	English	This course is
BUSINESS		MENI			designed to
AND		THEORY			explore the field of
ECONOMICS		AND			management in
		PRACTIC			theory and
		E			practice, and as
					both a science and
					an art. The course
					also addresses the
					role of managers in
					inorogood
					compositivo forcos
					and incroased
					expectations for
					the successful
					nerformance of
					employees and
					organizations The
					focus is on some of
					the ways and
					means of achieving
					desired goals. The
					student will leave
					this course with a
					strong background
					in the nature and
					work of
					management and
					managers.
					Applications of
					concepts to current
					workplace issues
					will be stressed.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Conte <u>nts</u>
FACULTY OF BUSINESS AND ECONOMICS	EQB7005	PUBLIC POLICY ANALYSI S	4	English	This course is concerned with the structure of governance and its impact on development, with a focus on how policies evolve and are implemented. It is organized in three parts: first, an introduction to relevant theories of the state and a comparison of developmental models. Second, an analysis of policy planning and implementation in East Asia and Malaysia, with a focus on the latter. Third, case studies of major policies and assessment of their impact on socio-economic development.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	EQB7006	Title FISCAL ADMINIS TRATION	4	English	Course Contents This course is concerned with public goods and public choice associated with fiscal administration, taking into consideration the criteria of efficiency and equity, as well as how politicians and bureaucrats influence budgetary outcomes. It examines taxation and expenditure policies of the government and discusses alternative means of financing government expenditures as well as costs and benefits of government investment projects. It also focuses on fiscal federalism, federal finance, as well as
					Intergovernmental relations and financial adjustment.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	EQD7003	DEVELO PMENT THEORY AND PRACTIC E	4	English	"This course will start with a review of development concepts, definitions and theories. Following this is an analysis of development models, processes and mechanisms. There will be a review of the paradigm shifts in the field of development studies. Finally there is a discussion on the development challenges and needs for new approaches in the context of globalization and changing roles of the government, private and non- government agencies.
FACULTY OF BUSINESS AND ECONOMICS	ZQA7003	FOUNDA TIONS OF PUBLIC POLICY	3	English	#N/A

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	ZQA7014	RESEAR CH METHOD OLOGY FOR POLICY MAKERS	3	English	In this course students will learn the skills of conducting research specifically as a preparation for policy monitoring and evaluation system. Students will learn the skills of conceptualising pragmatic recommendations and ways to solve an issue, question or problem clearly and effectively. Specifically, the course will ensure student understand the existence of link between public policy agenda, the process of policy formulation and the effect of the policy to the public. Students will be exposed to qualitative and quantitative methods and focus will be given to ways to conduct focused synthesis, analysis of secondary information, field experiments, survey approaches and cost-benefit analysis.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	ZQA7016	HISTORY POLITICS AND DEVELO PMENT	3	English	In this course, students will learn the importance of understanding history and politics in public policy making. Students will be trained to analyse the key historical and political events that are critical in explaining development policy outcomes. Students will be exposed to cases of countries/regions in which different development policies are affected by different political history events. Students will be made aware that policy design and approaches depend on the quality of government institutions and their responses to local and global political historical
					events.

FACULTY OF BUSINESS AND ECONOMICS ZQA7017 ECONOM ICS IN POLICY MAKING 3 English In this course students will ear the process of conducting economic analy making and better would contribute to would co	Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
agenda, the process of economic policy formulation and t	FACULTY OF BUSINESS AND ECONOMICS	ZQA7017	Title ECONOM ICS IN POLICY MAKING	3	English	Course Contents In this course students will learn the process of conducting economic analyse and social issues through understanding of economic theory. This would contribute towards understanding the economic and social challenges that is faced by the nation and empower students to rethink economic policy in era turbulence and growing inequality and environmental destruction. Specifically, this course will ensure that students are provided tools to do economic research that connects impact of advancement digital technology to the future of economy. This would result in improved policy making and better understanding the connection between economic theory and policy
						agenda, the process of economic policy formulation and the

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	ZQA7019	PUBLIC FINANCE IN POLICY MAKING	3	English	This course will expose students to the method of obtaining, placing, and using resources to support organisational programmes that are capable of fulfilling public demands. This course will emphasise budget formats, processes, and policies as well as the influence of politics in the preparation and approval of budgets.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF BUSINESS AND ECONOMICS	ZQA7020	LAW, GOVERN ANCE AND PUBLIC POLICY	3	English	This course is designed to give students exposure to a broad array of scholarship, touching upon the intersection of law and matters of governance and its impact on effective public policy. Students will attend talks and seminars in law and other fields (political science, economics and humanities) and will present policy papers on current public policy issues. Particular attention will be devoted to current issues, such as land use, religion, economy, and social reform

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF	SQA7020	ADVANC	3	English	The objective of
SCIENCE		ED			this course is to
		CHARAC			understand the
		TERIZATI			operating principle
		ON			in advanced
		TECHNIQ			measurement and
		UES			characterization
					techniques, as well
					as to analyze and
					interpret the
					measurement
					results. The course
					contents include an
					introduction to
					advanced
					measurement
					techniques such as
					scanning electron
					microscopy, light
					microscopy,
					transmission
					electron
					microscopy, atomic
					force microscopy,
					spectroscopic
					methods,
					methods, principle
					or scattering,
					mechanical
					measurements and
					analysis of trace.

Faculty Module Code	odule Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
SCIENCE		3	English	I his course provides an
				working principles
PH	IYSICS			and operation
				techniques of
				instruments
				commonly used in
				covered include:
				transducers and
				sensors, data
				acquisition
				techniques, signal
				propagation and
				conversion, noise,
				signal recovery
				techniques and
				microcontroller
				Instrumentation. It
				hands-on related to
				covered topics and
				assignments
				related to
				experimental /
				computational /

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7024	ORGANI C ELECTR ONICS DEVICES	3	English	Charge Transport in Organic Materials: Classical theory - Electrical conductivity, Ohm's Law, Electron Transport, Drift Velocity, Drift Mobility, Fermi Energy, Energy Bands, Energy Level Alignment, Contact Resistance, Interfaces and Metal Contact, Space Charge Effects. Optical Phenomenon: Electromagnetic Radiation, Interaction of EM with Organic Molecules, Optical Absorption and Emission, Plasmonic. Fabrication Techniques: Spin Coating, Electrochemical
					Methods, Inkjet Printing, Sol-Gel Processing, Langmuir- Blodgett, Chemical Self Assembly, Nanofabrication.
					Characterization Techniques: UV-vis Spectroscopy, Raman Spectroscopy, Small-angle X-ray Scattering, X-ray Photoelectron Spectroscopy, Electrochemical

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7025	OPTICAL FIBRE TECHNO LOGY	3	English	Overview of optical fiber technologies. Principle of light guiding in optical fiber: Light properties. Total internal reflection, NA, TM- and TE modes. Modes in optical fiber: Maxwell's equation and boundary condition. Refractive index and dispersion. Types of fiber and their fabrication processes: multimode, few- mode and single mode, doped fiber, LMA fiber, etc. Optical fiber components: principles and fabrication: WDM (fused biconical taper and TFF), power splitters, isolator, circulator, FBG, etc. Other essential optical components: Planar waveguides (splitter, modulator). Laser diodes. Photodetectors. Optical fiber lasers: Tunable, wavelength range, CW, Q-switched, Mode- locked. Optical fiber applications: Communications, Manufacturing, Medical, Sensing.

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7026	ENERGY MATERIA LS AND DEVICES	3	English	Overview of structure, properties and sustainability of important material groups which are the basis of modern energy technology. Fundamental aspects of charge transport in electrolytes: acidic/alkaline electrolytes; polymers, salts, additives. Fundamental aspects of charge transport in electrodes: activation, carbonaceous materials, conducting polymers, transition metal compounds, architectures at nano/microscale. Energy devices: working principles, designs, energy content, production process. Methods used to fabricate materials for energy devices, practical techniques in materials for energy storage: rechargeable batteries (metal-air cells, lithium-ion batteries), supercapacitors
					pseudocapacitor,

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7027	APPLIED PLASMA	3	English	Fundamentals of plasma physics: Introduction to Plasma Physics: Definition of plasma temperature, collisions and elementary processes, electron temperature, criterion of plasma, plasma shielding, plasma oscillation, particle transport in plasma, Saha equation. Methods of plasma generation: Gas discharge principle, Townsend theory, thermal and non- thermal plasma generation: DC glow discharge, AC to RF discharge, microwave heating of plasma, pulsed plasma discharges. Plasma diagnostics: Measurement of plasma properties, time resolved and time integrated techniques. Electrical probe measurements, optical imaging and emission spectroscopy, X- ray imaging and measurement of plasma technology: Low pressure plasma processing
					plasma-based

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7028	Title	3	English	Course Contents Introduction to radiation physics and radiation sources. Nuclear instability. Nuclear activation. X-ray emission. Moseley Law. Types of radiation. Half-life and minimum life. Quantities and units of radiation. Radioactive Decay Law. Radioactivity and a series of Radioactive Decay. Radiation stability (Bateman equation). Introduction to radiation protection. Radiation protection. Radiation protection principles: Distance, Time, Dosage. Radiation interaction with matter (elastic and non-elastic processes). Biological effects of radiation. Principles of radiation. Principles of radiation protection; external and internal hazards. Radiation monitoring equipment. Laws and regulations. Difference between radiation and radioactivity. Radiation
					measurement units. Radiation effects. Activity and

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQA7030	QUANTU M TECHNO LOGY	3	English	Fundamentals of Quantum Theory: Elementary quantum mechanics: wave- particle duality, uncertainty, quantum states vector, probability. Single photon state & Quantum bit. Density operator for mixed and pure states. EPR paradox & nonlocality. Bell's theorem & inequality. CHSH inequality. CHSH inequality. Quantum entanglement: Entangled states: Bell's states, GHZ states and equality. Maximally entangled states. Multipartite entanglement. Schrodinger's cat states. Schmidt decomposition. Generation of entangled states: PDC and beam splitter. Quantum measurements: POVM, projective measurements. Quantum non- demolition (QND) measurement. Quantum Teleportation: Dense Coding. Fidelity. Quantum Information theory: von Neumann
					Shannon entropy. Quantum bits and

Faculty	Module Code	Module Title	Credit Hours	Medium of Instruction	Synopsis of Course Contents
FACULTY OF SCIENCE	SQC7016		3	English	
FACULTY OF SCIENCE	SQC7018		3	English	
FACULTY OF SCIENCE	SQD7006		3	English	
FACULTY OF SCIENCE	SQD7015		4	English	
FACULTY OF SCIENCE	SQE7018		3	English	