EC3301 Econometrics

SCOTCAT Credits:	20	SCQF level 9	Semester	1
Academic year:	2021-2022			
Planned timetable:	9.00 am - 11.00 am Tue.			

The module develops student understanding of the classical linear econometric model (ordinary least squares). This will cover a range of topics including: estimation and inference in multivariate regression models; the use of limited dependent variables; large sample properties of OLS estimators; multicollinearity and heteroskedasticity. Student understanding of key econometric concepts and their application to economics will be developed, allowing them to estimate, interpret, test and critically evaluate economic relationships. The module will develop students applied skills through the use of appropriate econometric software.

Pre-requisite(s):	Permission of the Economics Honours Adviser			
Learning and teaching	Weekly contact: 1hr x 20 lectures, 1hr x 4 tutorials, 2hr x 5 laboratories			
methods of delivery:	Scheduled learning: 33 hours Guided independent study: 167 hou			
	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25% As used by St Andrews: Class Test (Theory) = 25%, Written Project (Applied) = 25%. 2 hour Written Examination = 50%			
Assessment pattern:				
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr P D Macmillan			
Module teaching staff:	Peter Macmillan			

EC3302 Game Theory

SCOTCAT Credits:	20	SCQF level 9	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Permission of the Economics Honours Advisor			
Planned timetable:	9.00 am - 11.00 ar	n Mon.		

Game Theory focuses on the decisions and behaviour of economic agents in interactive situations. This module will teach the basics of strategic thinking, aiming to guide students' understanding of the common roots of many social and economic dilemmas. Beginning with the discussion of simple games, analytic tools will be introduced progressively leading the discussion of numerous applications like bargaining, production and market entry choices, financing decisions, voting, and more.

Pre-requisite(s):	Permission of the economics honours adviser		
Anti-requisite(s)	You cannot take this module if you take EC4201		
Learning and teaching methods of delivery:	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 wee plus 1 office hour (x 12 weeks).		
methods of delivery.	Scheduled learning: 25 hours Guided independent study: 175 hours		
	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
Assessment pattern:	As used by St Andrews: Coursework (Quizzes) = 10%, Class Test = 30%, 2-hour Written Examination = 60%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Professor A Zapechelnyuk		
Module teaching staff:	A Zapechelnyuk	-	

| SCOTCAT Credits: | 20 | SCQF level 9 | Semester | 1 | | Academic year: | 2021-2022 | | Planned timetable: | 9.00 am - 11.00 am Wed. |

Growth is one of the core issues in Economics which has intrigued economists for more than a century. In spite of their effort, many questions remain unanswered, making this one of the most interesting and challenging field in Economics. A recurring theme of this course will be the question Why are some countries so rich, while others are so poor? The main objective of this course will be to apply economic theory to better understand and interpret empirical observations with respect to economic development and growth. In this course, we will study the main facts characterizing economic development and growth over time and across countries and the ability of theoretical models to account for these facts.

Pre-requisite(s):	Permission of the Economics Honours Adviser			
Learning and teaching	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).			
methods of delivery:	Scheduled learning: 25 hours	Guided independent study: 175 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
Assessment pattern.	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%)			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr R L Stefanski			
Module teaching staff:	Radek Stefanski			

EC3304 Mathematical Economics	
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SCOTCAT Credits:	20	SCQF level 9	Semester	1
Academic year:	2021-2022			
Planned timetable:	9.00 am - 11.00 ar	9.00 am - 11.00 am Thu.		

The module covers the basic mathematical tools used in economic theory. Good knowledge of elementary calculus will be assumed. The main topics are multivariate calculus, concavity and convexity, optimization theory, differential equations, and dynamic optimization. The main goal is that students learn to use the tools, so the emphasis will be on techniques and their applications to fundamental economic models rather than abstract theory.

Pre-requisite(s):	Permission of the Economics Honours Adviser		
Learning and teaching methods of delivery:	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
illetilous of delivery.	Scheduled learning: 25 hours	Guided independent study: 175 hours	
	As defined by QAA: Written Examinations = 100%, Practical	al Examinations = 0%, Coursework = 0%	
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. 2 x Class Test 25% each 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr M Zhang		
Module teaching staff:	Min Zhang		

EC3305 Incentives, Contracts and Markets

SCOTCAT Credits:	20	SCQF level 9	Semester	1
Academic year:	2021-2022			
Planned timetable:	To be arranged.			

Incentives economics (also known as economics of information and contract theory) studies interactions between economic agents in the presence of information asymmetries, such as sellers being better informed than buyers about product quality, or workers knowing better than employers the cost of exerting effort in a given task. Incentives economics is part of the core toolkit of modern graduate-level micro- and macroeconomics. This module introduces basic models featuring risk-sharing, private information and moral hazard, and covers a selection of applications among the following: workers compensation, corporate finance, equal pay communes, pricing, insurance, and higher education.

Pre-requisite(s):	Permission of the Economics Honours Adviser		
Learning and teaching	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
methods of delivery:	Scheduled learning: 25 hours	Guided independent study: 175 hours	
A	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%		
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 50%, Co.	ursework = 50%	
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr L Bridet		
Module teaching staff:	Luc Bridet		

EC3306 Economic Fluctuations

SCOTCAT Credits:	20	SCQF level 9	Semester	2
Academic year:	2021-2022			
Planned timetable:	To be arranged.			

Economic growth is not steady but features a series of expansions and contractions. These economic fluctuations are of primary concern to economic policy makers and have been the source of some of the most intense debates in all of economics. A recurring theme of this course will be the question Where do economic booms and busts come from? and the module's main objective is to provide an advanced understanding of the macroeconomics behind this volatility. Students will be introduced to the main facts characterizing economic fluctuations as well as a range of formal analytical models that will help develop their understanding of key macroeconomic and monetary relationships. Finally, they will examine how well these models account for the observed facts.

Pre-requisite(s):	Permission of the Economics Honours Adviser		
Learning and teaching	Tiplus I office flour (x 12 weeks).		
methods of delivery:			
According to the sure	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 5		
Assessment pattern:			
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr Y Moiseeva		
Module teaching staff:	Yulia Moiseeva		

TBC

Planned timetable:

EC3307 Computational Economics SCOTCAT Credits: 20 SCQF level 9 Semester 2 Academic year: 2021-2022

Economics has an array of very useful and advanced computational tools that are not usually taught at the undergraduate level. To address this issue and to make students familiar, and even proficient, with these tools, this module will present a methods-based computational economics course. We will develop some basic but fundamental economic problems (both macro and micro) and teach students how to solve those problems using a programming language like Mathematica or Matlab. The ability to program is crucial in the modern world and this course will endow students with an invaluable tool as well as an important edge with respect to other economics programs. Students will be given an opportunity to program and to learn to apply their new skills to solving economic problems.

Pre-requisite(s):	Before taking this module you must pa	ss EC3304 or pass MT1002
Learning and teaching	Weekly contact: 20 hours of lectures of weeks), 2-hour lab (x 2 weeks) plus 1 o	,
methods of delivery:	Scheduled learning: 29 hours	Guided independent study: 180 hours
Assessment pattern:	·	Examinations = 0%, Coursework = 75%
	As used by St Andrews: Written Examination (In-class Test) = 2	5%, Coursework = 75%
Re-assessment pattern:	Programming Project = 100%	
Module coordinator:	Dr R L Stefanski	
Module teaching staff:	R Stefanski	

EC44	01 Advanced Econome	etrics		
	CCOTCAT Cradita:	20	CCOF lovel 10	Competer

SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to Gener Adviser	ral Degree students v	vith the permission of the	e Honours
Planned timetable:	To be arranged.			

The module seeks to equip students with advanced skills in data analysis by introducing a number of estimation methods commonly used in economics. These include, limited dependent variable models, pooled cross-section and panel models, two-stage least squares, time series methods and simultaneous equation models. The module builds upon the knowledge of the linear regression model acquired in EC3301.

Pre-requisite(s):	Before taking this module you must pa	ss EC3301 or pass MT3508
Learning and teaching	Weekly contact : 20 hours of lectures weeks) plus 1 office hour (x 12 weeks).	
methods of delivery:	Scheduled learning: 25 hours	Guided independent study: 175 hours
	As defined by QAA: Written Examinations = 100%, Practical	al Examinations = 0%, Coursework = 0%
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 50%, Co 50%	ursework (incl. 2 x Class Test 25% each) =
Re-assessment pattern:	2-hour Written Examination = 100%	
Module coordinator:	Professor J R McCrorie	
Module teaching staff:	Roderick McCrorie	

2 Monetary and Fina	TILLIAI MISLOTY		1	
SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to Gene Adviser	ral Degree students	with the permission	on of the Honours
Planned timetable:	2.00 pm - 4.00 pm	n Thu.		
			p	tively modern question
uses theoretical and econ	ometric analysis.	eat these questions	with a modern rig	•
have long historical antecuses theoretical and econ Pre-requisite(s):	ometric analysis. Permission of the	eat these questions Economics Honours	with a modern rig	gour, studying work tha
uses theoretical and econ Pre-requisite(s): Learning and teaching	permission of the Weekly contact:	eat these questions Economics Honours 2 lectures per week	with a modern rig Adviser (x 9 weeks). 1-hou	gour, studying work that or tutorial (x 5 weeks)
uses theoretical and econ Pre-requisite(s): Learning and teaching methods of delivery:	Permission of the Weekly contact: Scheduled learnir As defined by QA Written Examinat	Economics Honours 2 lectures per week ng: 25 hours A: tions = 0%, Practical	with a modern rigonal services (x 9 weeks). 1-house Guided independent Examinations = 0%	gour, studying work tha
uses theoretical and econ Pre-requisite(s): Learning and teaching methods of delivery: Assessment pattern:	Permission of the Weekly contact: Scheduled learnir As defined by QA Written Examinat	Economics Honours 2 lectures per week ng: 25 hours A: tions = 0%, Practical drews: Class Test 50%, Essa	with a modern rigonal services (x 9 weeks). 1-house Guided independent Examinations = 0%	gour, studying work that or tutorial (x 5 weeks) odent study: 175 hours
uses theoretical and econ	Permission of the Weekly contact: Scheduled learnir As defined by QA Written Examinat As used by St And Coursework (incl.	Economics Honours 2 lectures per week ng: 25 hours A: tions = 0%, Practical drews: Class Test 50%, Essa	with a modern rigonal services (x 9 weeks). 1-house Guided independent Examinations = 0%	gour, studying work the or tutorial (x 5 weeks) odent study: 175 hours

SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022	•		•
Availability restrictions:	Available to Gen Adviser	eral Degree studen	ts with the permission	on of the Honours
Planned timetable:	To be arranged.			
assumptions of rational c period as well as in multi- be discussed.		•	· ·	
Pre-requisite(s):	Permission of the	e Economics Honou	ırs Adviser	
	Mookly contact:			
Learning and teaching	plus 1 office hou		es over 11 weeks, 1-	hour tutorial (x 5 wed
Learning and teaching methods of delivery:	_	r (x 12 weeks).	1	hour tutorial (x 5 wed
methods of delivery:	plus 1 office hou Scheduled learn As defined by Q	r (x 12 weeks). ing: 25 hours AA:	Guided indepen	•
	plus 1 office hou Scheduled learn As defined by Q Written Examina As used by St An	r (x 12 weeks). ing: 25 hours AA: ations = 75%, Practioners:	Guided indepen cal Examinations = 0	ndent study: 175 hou 0%, Coursework = 25
methods of delivery:	plus 1 office hou Scheduled learn As defined by Qu Written Examina As used by St An 2-hour Written E	r (x 12 weeks). ing: 25 hours AA: ations = 75%, Practioners:	Guided independed cal Examinations = C	dent study: 175 hou
methods of delivery: Assessment pattern:	plus 1 office hou Scheduled learn As defined by Qu Written Examina As used by St An 2-hour Written E	r (x 12 weeks). ing: 25 hours AA: ations = 75%, Practioners drews: examination = 50%,	Guided independed cal Examinations = C	ndent study: 175 hou 0%, Coursework = 25

o industriai Organisa	tion and Regula	ations		
SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to Gene Adviser	ral Degree students v	vith the permission of the	e Honours
Planned timetable:	To be arranged.			
studies. The Topics cover game theoretic terms; n innovation; mergers. Learning and teaching	Weekly contact:	economies of scale, 20 hours of lectures of		differentiation
methods of delivery:	plus 1 office hour	·		1 4601
	As defined by QA Written Examinat	A:	Guided independent st Examinations = 0%, Cou	•
		10113 - 7370, 1 14001041		36WOIK - 2370
Assessment pattern:	As used by St And 2-Hour Written Ex 50%	lrews:	ursework (including Class	
Assessment pattern: Re-assessment pattern:	2-Hour Written Ex 50%	lrews:	·	
Assessment pattern: Re-assessment pattern: Module coordinator:	2-Hour Written Ex 50%	lrews: camination = 50%, Co	·	

9 International Macr	oeconomics			
SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022			
Availability restrictions:	Available to Gene Adviser	eral Degree student	s with the permission	on of the Honours
Planned timetable:	11.00 am - 1.00 p	m Fri.		
The course makes intensito deepen understanding familiarise students with	of the functionin	g of the internatio	nal monetary and f	financial system, and to
Pre-requisite(s):	Permission of the	Economics Honou	rs Adviser	
Learning and teaching methods of delivery:	Weekly contact: plus 1 office hour		es over 11 weeks, 1-	hour tutorial (x 5 weeks
methous of delivery.	Scheduled learning	ng: 25 hours	Guided indepen	dent study: 175 hours
	As defined by QA Written Examina		cal Examinations = 0	%, Coursework = 25%
Assessment pattern:	As used by St And 2-hour Written Ex 25%) = 50%		Coursework (incl. Te	echnical Assignment
Re-assessment pattern:	2-hour Written Ex	kamination = 100%		
Module coordinator:	Dr O Senay			
Module teaching staff:	O Senay			·

410 International Trade	9			
SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022			
Availability restrictions:	Available to General Adviser	ral Degree students v	vith the permission of th	e Honours
Planned timetable:	To be arranged.			
This module introduces be increasingly integrated winterdependence among a its impact on economic grand relevant empirical evirelevant today. The mochallenges presented to separate to se	world. Its aim is all countries. Its cor owth, the classic the dence and major public will cover transfer a framework, e	to provide students atent includes a curre beory of free trade, re olicy issues arising in aditional (neoclassica	s a global view and unt and an historical overwork that are open economies that are all economics and also experience of developing and all and all and all and all also experience and all also experience and all all all all all all all all all al	nderstanding of view of trade and eoretical models becoming more discuss various
Learning and teaching		20 hours of lectures of	over 11 weeks, 1-hour tu	torial (x 5 weeks)
methods of delivery:	Scheduled learnin	g: 25 hours	Guided independent st	udy: 175 hours
Assessment pattern:	As used by St And	ions = 75%, Practical	Examinations = 0%, Cou	
Re-assessment pattern:	2-hour Written Ex		,	•
Module coordinator:	Dr J Y Jin			
Module teaching staff:	Jim Jin			

This module introduces the analysis of labour markets from the perspective of economic theory. It starts with the exploration of two major forces that shape the behaviour of labour markets: labour supply of workers and labour demand of firms. This is followed by the discussion of the equilibrium behaviour of employment and wages. These tools are further used to cover various applied topics in labour economics, such as wage inequality, labour market discrimination, human capital investment, labour mobility, unemployment and labour market participation. Students will study the main theoretical models used by labour economists and understand how they help inform policy making. Students will also acquire practical experience in the analysis of labour market data and policy evaluation while working on the applied project in their chosen area of labour economics.

Learning and teaching	Weekly contact : 20 hours of lectures plus 1 office hour (x 12 weeks).	over 11 weeks, 1-hour tutorial (x 5 weeks)
methods of delivery:	Scheduled learning: 37 hours	Guided independent study: 163 hours
Accommont matterns	As defined by QAA: Written Examinations = 70%, Practical	Examinations = 0%, Coursework = 30%
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 50%, Co	oursework (incl. Class Test 20%) = 50%
Re-assessment pattern:	2-hour Written Examination = 100%	
Module coordinator:	Dr I Merkurieva	
Module teaching staff:	I Merkurieva	

L4 Macroeconomic Po	olicy			
SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to General Adviser	ral Degree students	s with the permissio	on of the Honours
Planned timetable:	To be arranged.			
monetary policy transpa targeting, monetary and will also look at the opera	fiscal policy in a de	pressed economy,	monetary and fisca	l policy interaction. We
Pre-requisite(s):		Economics Honour		CB, Bank of England).
Learning and teaching		20 hours of lecture		nour tutorial (x 5 weeks)
methods of delivery:	Scheduled learning	g: 25 hours	Guided indepen	dent study: 175 hours
Assessment pattern:	As defined by QAA Written Examinat		cal Examinations = 0	%, Coursework = 25%
Assessment pattern.	As used by St And 2-hour Written Ex		Coursework (incl. Cla	ass Test 25%) = 50%
	l			
Re-assessment pattern:	2-hour Written Ex	amination = 100%		
Re-assessment pattern: Module coordinator:	2-hour Written Ex Dr P D Macmillan	amination = 100%		

SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022	1000. 1010. 20		
Availability restrictions:	Available to Ger Adviser	neral Degree student	s with the permission	on of the Honours
Planned timetable:	To be arranged.			
and different modes of p and income redistribution design of tax systems.				
· ·	I .			
Pre-requisite(s):	Permission of th	ne Economics Honou	rs Adviser	
Pre-requisite(s): Learning and teaching		:: 20 hours of lecture		hour tutorial (x 5 week
Pre-requisite(s): Learning and teaching	Weekly contact	: 20 hours of lecture ur (x 12 weeks).	s over 11 weeks, 1-	
Pre-requisite(s): Learning and teaching methods of delivery:	Weekly contact plus 1 office hor Scheduled learn As defined by C	:: 20 hours of lecture ur (x 12 weeks). ning: 37 hours	Guided indepen	hour tutorial (x 5 week ndent study: 163 hours 0%, Coursework = 25%
Pre-requisite(s): Learning and teaching methods of delivery:	Weekly contact plus 1 office hor Scheduled learn As defined by C Written Examin As used by St A	:: 20 hours of lecture ur (x 12 weeks). hing: 37 hours QAA: nations = 75%, Praction ndrews:	Guided indepental Examinations = 0	ndent study: 163 hours
Pre-requisite(s): Learning and teaching methods of delivery: Assessment pattern:	Weekly contact plus 1 office hor Scheduled learn As defined by C Written Examir As used by St A 2-hour Written	:: 20 hours of lecture ur (x 12 weeks). hing: 37 hours QAA: nations = 75%, Praction ndrews:	Guided indepental Examinations = 0	ndent study: 163 hours 0%, Coursework = 25%
<u> </u>	Weekly contact plus 1 office hor Scheduled learn As defined by C Written Examir As used by St A 2-hour Written	:: 20 hours of lecture ur (x 12 weeks). ning: 37 hours QAA: nations = 75%, Praction ndrews: Examination = 50%,	Guided indepental Examinations = 0	ndent study: 163 hours 0%, Coursework = 25%

6 Innovation Econom	T	CCOE Invel 40	C	12	
SCOTCAT Credits:	20	SCQF level 10	Semester	2	
Academic year:	2021-2022				
Availability restrictions:	Available to Gene Adviser	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged.				
by the introduction of nev	onomics of innovation. The module examines the incentives firms have to innovate new products and new processes and, in particular, how this is affected by strategic. The module also critically discusses the patent system, introducing students to				
Anti-requisite(s)	You cannot take this module if you take EC4616				
Learning and teaching	Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 6 weeks) plus 1 office hour (x 12 weeks).				
methods of delivery:	Scheduled learni	ng: 26 hours	Guided indepen	dent study: 175 hours	
	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%				
Assessment pattern: As used by St Andrews: 2-hour Written Examination = 50%, Coursework (incl. Class Test 25%) = 50					
Re-assessment pattern:	2-hour Written Examination = 100%				
Module coordinator:	Dr L Savorelli				
Module teaching staff:	Dr Luca Savorelli and Junaid Arshad				

Ioannis Psaradellis

Module teaching staff:

	7 Financial Economics: Asset Pricing					
SCOTCAT Credits:	20	20 SCQF level 10 Semester 1				
Academic year:	2021-2022					
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser					
Planned timetable:	2.00 pm - 4.00 pm	Mon.				
define, measure, as well notion of risk versus ret determined and traded in	orinciples. The ultimate aim is to provide students with a standard approach to as predict the value of financial claims in a world of uncertainty. The standard sturn is defined and analytical economic models of how risks and returns are in financial markets. Both normative and positive aspects of financial theory will be ith supporting descriptive and empirical evidence.					
Learning and teaching	Permission of the Economics Honours Adviser Weekly contact: 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).					
	plus 1 office nour	(x 12 weeks).		torial (x 5 weeks		
methods of delivery:	Scheduled learning		Guided independent st			
methods of delivery:	Scheduled learnin	g: 25 hours A:	Guided independent st Examinations = 0%, Cour	udy: 175 hours		
	Scheduled learnin As defined by QA Written Examinat As used by St And	g: 25 hours A: ions = 75%, Practica rews:	· ·	udy: 175 hours rsework = 25%		
methods of delivery:	Scheduled learnin As defined by QA Written Examinat As used by St And	g: 25 hours A: ions = 75%, Practica rews: amination = 50%, Cc	Examinations = 0%, Cou	udy: 175 hours rsework = 25%		
methods of delivery: Assessment pattern:	Scheduled learnin As defined by QA Written Examinat As used by St And 2-hour Written Ex	g: 25 hours A: ions = 75%, Practica rews: amination = 50%, Cc	Examinations = 0%, Cou	udy: 175 hours rsework = 25%		

18 Financial Economic	8 Financial Economics: Corporate Finance				
SCOTCAT Credits:	20	SCQF level 10	Semester	1	
Academic year:	2021-2022	2021-2022			
Availability restrictions:	Available to General Adviser	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged.				
financial structure, char specialisation and legal e solving problems under e working knowledge of in	orporate actions. Possible actions include corporate investment decisions, decisions regarding the firm's nancial structure, changes in management rules and compensation and changes in the scope, pecialisation and legal environment of the corporation's business. We emphasise standard methods for olving problems under economic uncertainty. At the end of this module the student will have a good vorking knowledge of institutions and the theory and valuation methods used worldwide in major orporations and financial institutions. Pere-requisite(s): Permission of the Economics Honours Adviser				
Learning and teaching	Weekly contact: 2 plus 1 office hour		over 11 weeks, 1-hour tu	torial (x 5 weeks)	
methods of delivery:	Scheduled learning	g: 25 hours	Guided independent st	udy: 175 hours	
	As defined by QAA: Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%				
Assessment pattern:	As used by St Andrews: Coursework (inc Class Test 25%, Quizzes 25%) = 50% 2-hour written examination = 50%				
Re-assessment pattern:	Coursework = 100%				
Module coordinator:	Dr E Lauw				
Module teaching staff:	Erven Lauw				

EC4419 Development Economics

SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			e Honours
Planned timetable:	To be arranged			

This module explores the microeconomic foundations of development economics. We will discuss topics such as poverty traps, labor markets, human capital, gender, public goods/service delivery and taxation, infrastructure, among others. In studying each of these topics, we will ask: what determines decision-making in low- and middle-income countries? What constraints do agents face? Is there scope to improve livelihoods through the actions of market participants, governments, international organisations (e.g. World Bank) and NGOs? What policies have been tried in different countries and how have they fared? This module places emphasis on developing analytical understanding of applied issues, while combining theory and empirical evidence. We will ultimately seek to draw useful policy conclusions.

Learning and teaching	Tweeks) blus I office flour (x 12 weeks).			
methods of delivery:	Scheduled learning: 25 hours	Guided independent study: 175 hours		
Access and mothers.	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework =			
Assessment pattern:	As used by St Andrews: Written Exam = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Ms A Bancalari Valderrama			
Module teaching staff:	Dr Antonella Bancalari	_		

EC4424 The Economics of Migration

SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			e Honours
Planned timetable:	To be arranged.			

The number of international migrants has rapidly grown over the last few decades. This module explores the economic determinants and consequences of international migration, and sheds light on the often controversial policy debates surrounding immigration. Students will apply basic economic theory and empirical methods to understand the decision to migrate, the effect of immigration on labour markets and government budgets, the effect of diversity on economic performance, the effect of high-skilled emigration on source countries and immigration policies. The module will have a strong focus on the empirical evidence on immigration and will train students' ability to critically assess this evidence.

Pre-requisite(s):	Permission of the Economics Honours Adviser			
Learning and teaching	Weekly contact : 2 hours of lectures over 11 weeks, 1-hour tutorial (x 5 we plus 1 office hour (x 12 weeks).			
methods of delivery:	Scheduled learning: 25 hours Guided independent study: 175 h			
Assassment nettern	As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%			
Assessment pattern:	As used by St Andrews: Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr D R Escamilla-Guerrero			
Module teaching staff:	David Escamilla-Guerrero and David Jac	eger		

Dr L Neri

Lorenzo Neri

EC4425 Econometrics of Impact Evaluation SCOTCAT Credits: SCQF level 10 Semester 2 Academic year: 2021-2022 Available to General Degree students with the permission of the Honours Availability restrictions: Adviser Planned timetable: To be arranged. Evaluating the causal effects of economic policies is an important but complex and challenging task. The purpose of this module is to introduce students to the core methods for evaluating the causal effect of economic policies and to apply these methods in practice. It will expose students to the concept of causality and explain under which assumptions the causal effect of economic policies can be identified. The module will have a strong focus on applications and will emphasise problems that economists encounter in practice when evaluating economic policies. Empirical examples will deal mainly with policies in labour economics and development economics. The laboratory sessions will discuss important empirical studies in the field and will provide students with the opportunity to apply empirical methods hands-on using Stata. Before taking this module you must pass EC3301 or pass MT3508 or pass Pre-requisite(s): EC5203 Weekly contact: 20 hours of lectures over 11 weeks, 1-hour laboratories (x 5 Learning and teaching weeks) plus 1 optional office hour (x 12 weeks) methods of delivery: Scheduled learning: 25 hours Guided independent study: 175 hours As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25% Assessment pattern: As used by St Andrews: Written Examination = 50%, Coursework (incl. Class Test 25%) = 50% Re-assessment pattern: 2-hour Written Examination = 100%

Module coordinator:

Module teaching staff:

EC4426 Practical Financial Modelling

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SCOTCAT Credits:	20	SCQF level 10	Semester	2
Academic year:	2021-2022			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	To be arranged			

Financial modelling using Microsoft Excel is used in many fields such as investment banking, mergers and acquisitions (M and A), equity research, risk analysis, valuations, investment management, credit analysis, financial projections and project evaluations. This module is designed to equip students with skills to implement financial models using Excel. It will also introduce the use of VBA (Visual Basic for Applications, Microsoft's programming language) in financial modelling. This is an applied module with an emphasis on the practical application of finance theory through in-depth Excel based laboratories. Material will be made relevant to the international finance industry with real world examples and problems relevant to global financial markets. The goal of this module is to provide students with extensive knowledge of the quantitative models used by financial institutions around the world.

Pre-requisite(s):	Before taking this module you must take EC4430 and take EC4417		
Learning and teaching methods of delivery:	Weekly contact : 1h x 11 weeks lectures, 1h x 6 weeks labs, and 2h x 5 we labs		
methods of delivery.	Scheduled learning: 33 hours	Guided independent study: 168 hours	
Access out nottons	As defined by QAA: Written Examinations = 0%, Practical Examinations = 70%, Coursework = 30%		
Assessment pattern:	As used by St Andrews: Class Test = 30%; Practical project 1 = 10%; Practical project 2 = 60%		
Re-assessment pattern:	100% Coursework		
Module coordinator:	Dr M C Iannino		
Module teaching staff:	Maria Chiara Iannino		

EC4428 Topics in Economic History

SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022			
Planned timetable:	TBC			

This module will examine a selection of the major themes in economic history. Students will read academic articles written by economists that use novel historical data, state-of-the-art micro econometric methods, and economic theory. The reading list covers a broad range of historical periods and geographic regions that provide unique settings to answer questions that are usually difficult to address in contemporary settings. The module begins with a discussion of the evolution of economic history and the main empirical methods used in applied microeconomics and their application in economic history. Then, students will examine interrelated themes including the ultimate determinants of economic prosperity; culture and religion as drivers of social and economic change; the origins of gender inequality; the impact of ethnic animus and conflict in the long run; and the persistent effects of immigration and technology adoption on the economy.

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Learning and teaching	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorials (x 5 weeks) plus 1 office hour (x 12 weeks). Guided independent study: 168 hours.		
methods of delivery:	Scheduled learning: 37 hours	Guided independent study: 168 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursewo As used by St Andrews:		
	Coursework = 50% Exam = 50%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr D R Escamilla-Guerrero		
Module teaching staff:	Dr David Escamilla-Guerrero		

Economics & Finance - Honours Level - 2021/2 - August - 2021

| SCOTCAT Credits: | 20 | SCQF level 10 | Semester | 2 | | Academic year: | 2021-2022 | | Planned timetable: | Wednesdays 10:00 - 12:00 |

This module covers important theory and empirical evidence in the field of Health Economics. It first provides an overview of how different countries organise their healthcare systems and main issues in the economics of healthcare. Students will then review the problems that emerge in healthcare insurance markets, including moral hazard in the use of health care services and ex-ante risk heterogeneity in consumers. Students will also study the different ways that health care providers can be paid and how this affects the effort, cost, and quality of treatment, as well as the effect of competition among healthcare providers on quality. Students will finally explore pharmaceutical markets and the economics of pandemics. This module places emphasis on developing analytical understanding of applied issues, while developing strong theoretical foundations. We will ultimately seek to draw useful policy conclusions for high-, low- and middle-income countries.

Anti-requisite(s)	You cannot take this module if you passed EC4403			
Learning and teaching	weeks) plus 1 office hour (x 12 weeks). Scheduled learning: 37 hours Guided independent study: 168			
methods of delivery:				
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 50% = Coursework 50% = Written Exam			
Re-assessment pattern:	Written Examination = 100%			
Module coordinator:	Ms A Bancalari Valderrama			
Module teaching staff:	Dr Antonella Bancalari			

EC4430 Portfolio Management

SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022			
Availability restrictions:	Available to General Degree students with the permission of the Honours Adviser			
Planned timetable:	TBC			

This module aims to develop students' knowledge and understanding of key issues in asset allocation and portfolio composition/management at an intermediate level. The tradeoff between risk and return is defined, a clear distinction between passive and active portfolio management is established and key market equilibrium models of how risks and returns are determined at individual and portfolio levels are carefully analyzed. Moreover, this module aims to provide students with the opportunity to develop their ability to critically understand current theoretical and empirical research in the field of portfolio management and the implications of such research for alternative portfolio composition and management techniques. Various trading strategies involving multiple asset classes such as equities and bonds implemented by professional asset managers are introduced.

Pre-requisite(s):	Before taking this module you must take EC4417		
Anti-requisite(s)	You cannot take this module if you take EC4204		
Learning and teaching	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorial (x 5 weeks) plus 1 office hour (x 12 weeks).		
methods of delivery: Scheduled learning: 25 hours Guided independent study: 1		Guided independent study: 175 hours	
	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%		
Assessment pattern:	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr R Tuneshev		
Module teaching staff:	Ruslan Tuneshev	·	

EC4431 Economics of Education

SCOTCAT Credits:	20	SCQF level 10	Semester	1
Academic year:	2021-2022			
Planned timetable:	TBC			

This module explores the microeconomic foundations of the economics of education. After outlining the human capital model, students will discuss the impact of early childhood investments, school incentives (such as autonomy and competition) and inputs (teachers and peers) on education and labour market outcomes. The module will introduce screening and signalling models, estimates of the returns to education and the determinants of income inequality and intergenerational mobility. Students will also examine new issues linked to online education. This module places emphasis on developing analytical understanding by combining theory and evidence. There will be a strong focus on the policy implications that can be drawn from the empirical evidence.

Anti-requisite(s)	You cannot take this module if you passed EC4403			
Learning and teaching	Weekly contact : 20 hours of lectures over 11 weeks, 1-hour tutorials (x 5 weeks) plus 1 office hour (x 12weeks).			
methods of delivery:	Scheduled learning: 37 hours	Guided independent study: 168 hours		
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 50% = Coursework 50% = Written Exam			
Re-assessment pattern:	Written Examination = 100%			
Module coordinator:	Dr L Neri			
Module teaching staff:	Dr Lorenzo Neri			

This module will provide you with understanding of specific aspects of development finance, recognising that finance-related issues are increasingly important in economic development. The module is designed to introduce you to advances in both the theoretical and the empirical understanding of financial issues mainly in developing countries. This will include an examination of the starting point as well as the path to financial integration with the international economy, and will address a selection of the major issues surrounding developing markets. In the context of economic development and emerging markets, we will mainly study topics of financial repression and liberalisation; financial development; fragility and crises; microfinance; financial aid and economic development; and religion and finance.

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Pre-requisite(s):	Permission of the Economics Honours Adviser		
Learning and teaching	Weekly contact : 2 hours of lectures (x11 weeks), 1-hour tutorial (x 5 weeks) and 2 optional office hours dedicated to the module (x 12 weeks)		
methods of delivery.	methods of delivery: Scheduled learning: 27 hours Guided independent study: 1		
Assessment pattern:	As defined by QAA: Written Examinations = 80%, Practical Examinations = 0%, Coursework = 20%		
Assessment pattern.	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%		
Re-assessment pattern:	2-hour written examination = 100%		
Module coordinator:	Dr V Saxena		
Module teaching staff:	Vibhor Saxena		

98 Research Project	in Economics				
SCOTCAT Credits:	20	SCQF level 10	Semester	Both	
Academic year:	2021-2022				
Availability restrictions:	Available only to students in the final year of their degree programme with at least 60 credits in Honours Economics modules.				
Planned timetable:	1.00 pm - 2.00 pm	n Thu (Weeks 1 - 4 or	nly)		
application of economic discussion of existing res study of a problem. The	search and develop	ment of an argument	t. The project may a	•	
Pre-requisite(s):	Students must be in the final year of their Honours programme and have already accumulated at least 60 credits in 3000 or 4000 level Economics modules.				
Anti-requisite(s)	You cannot take this module if you take EC4499				
Learning and teaching	Weekly contact:	1 lecture (x 5 weeks)	, 1 supervision mee	ting (x 3 weeks)	
methods of delivery:	Scheduled learning	ng: 8 hours	Guided independe	ent study: 192 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 20%, Coursework = 80%				
Assessment pattern.	As used by St Andrews: Coursework = 100%				
	Research project revise and resubmit = 100%				
	Research project i	revise and resubmit =	= 100%		
Re-assessment pattern: Module coordinator:	Research project i	revise and resubmit =	= 100%		

EC4499 Dissertation in Economics

55 Dissertation in Economics				
SCOTCAT Credits:	40	SCQF level 10	Semester	Full Year
Academic year:	2021-2022			
Availability restrictions:	Available only to students in the second year of any Honours Economics Programmes.			
Planned timetable:	11.00 am - 12.00 r	noon Thu (Weeks 2,	4 and 8 only)	

This module is designed to develop students' independent research, writing and presentation skills. The dissertation should present original research applying economic and/or econometric methods to a selected topic in economics. The topic should be chosen by students in consultation with their supervisor. Students require approval for their preliminary dissertation outline from both the supervisor and the Principal Module Teacher by the end of the first week of Semester 1. The maximum number of words allowed is 15,000 but students will be advised to cover the topic in around 12,000. The lecture part of the module will train students' research skills in framing a research hypothesis, conducting bibliographic research, writing a literature survey, structuring a research paper, and presenting research results.

Pre-requisite(s):	Before taking this module you must pass EC3301			
Anti-requisite(s)	You cannot take this module if you take EC4498			
Learning and teaching	Weekly contact: 5 lectures and 6 meetings with supervisor over the year.			
methods of delivery:	ods of delivery: Scheduled learning: 11 hours Guided independent study: 389			
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%			
Assessment pattern.	As used by St Andrews: Coursework = 100%			
Re-assessment pattern:	Dissertation revise and resubmit = 100%			
Module coordinator:	Dr V Prasad			
Module teaching staff:	Vivek Prasad			

Dr O Senay

Ozge Senay

coordinator:

Module teaching

staff:

EC5201 Macroeconomics SCOTCAT Credits: SCQF level 11 Semester 1 Academic year: 2021-2022 Undergraduate Students: available with the permission of the Director of Teaching Availability only to students in the second year of the Honours programme who have achieved at restrictions: least 17.5 in EC3303 or EC3306. Planned timetable: To be arranged. The module will provide a thorough advanced treatment of the core models and concepts used in modern macroeconomics; for example the infinite horison Ramsey model and finite horizon overlapping generations model and models that have been used to characterise short term fluctuations, such as the real business cycle approach and the New Keynesian approach. Among other things, the module will seek to explain the development of microbased macroeconomic theory, use models to predict the impact of policy changes on endogenous variables and critique modelling assumptions, especially in the context of policy analysis. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods. Undergraduate - Undergraduate students must be in the second year of an Honours Pre-requisite(s): programme, have scored 17.5 or greater in EC3303 or EC3306 and have the permission of the Director of Teaching. Weekly contact: 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus Learning and 1 office hour (x 12 weeks). teaching methods of delivery: Scheduled learning: 30 hours Guided independent study: 170 hours As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40% Assessment pattern: As used by St Andrews: 3-hour Written Examination = 60%, Coursework (including class test 15%) = 40% Re-assessment 3-hour Written Examination = 100% pattern: Module

This module will provide a thorough advanced treatment of the core models and concepts used in modern microeconomics. Microeconomic theory is concerned with the behaviour of individual economic actors (e.g. firms, consumers) and the aggregation of their actions in different institutional frameworks (e.g. markets), and models economic activity as an interaction of individual economic agents pursuing their private interests. Students will be presented with a set of concepts and mathematical techniques which will enable them to achieve a better understanding of economic activity and outcomes. This involves an understanding of how microeconomic models are built, focusing on their objective in terms of the phenomenon they are meant to explain, and the consequences of their assumptions in terms of the applicability of their predictions. Students are expected to have a strong undergraduate level training in macroeconomics, microeconomics and relevant mathematical and statistical techniques. Before commencement of the module, supplementary lectures will be given on the relevant mathematical methods.

Pre-requisite(s):	Undergraduate - Undergraduate students must be in the second year of an honours programme, have scored 17.5 or greater in EC3302 or EC3305		
Learning and teaching methods	Weekly contact : 20 hours of lectures over 10 weeks, 1-hour tutorial (x 10 weeks) plus 1 office hour (x 12 weeks).		
of delivery:	Scheduled learning: 30 hours	Guided independent study: 170 hours	
Assessment	As defined by QAA: Written Examinations = 60%, Practical Ex	xaminations = 0%, Coursework = 40%	
pattern:	As used by St Andrews: 3-hour Written Examination = 60%, Coursework (including class test 15%) = 40%		
Re-assessment pattern:	3-hour Written Examination = 100%		
Module coordinator:	Dr M Zhang		
Module teaching staff:	Min Zhang		

SCOTCAT Credits:	20	SCQF level 11	Semester	1
Academic year:	2021-2022			
Availability restrictions:	Undergraduate Students: available with the permission of the Director of Teaching only to students in the second year of the Honours programme who have achieved at least 17.5 in EC4401.			
Planned timetable:	To be arranged.			
the basis for further techniques in publis in their MSc disserta	er work in economic hed articles. The ation. Students a cs. Before comm	ometrics and for und course will also give st re expected to have ir encement of the mod	lerstanding/being abludents the basis to sutermediate-level known	nethods that is suitable for le to extract econometric support an empirical section swledge of matrix algebra ctures will be given on the
Pre-requisite(s):	Undergraduate - Undergraduate students must be in the second year of an honours programme, have scored 17.5 or greater in EC4401			
Learning and teaching methods	<u>-</u>	t: 20 hours of lectures g labs (x 2 weeks) plus	·	ur tutorial (x 8 weeks), 2- eeks)
of delivery: Scheduled learning: 32 hours Guided independent study: 16				dent study: 168 hours
Assessment	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
pattern:	As used by St Andrews: Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr I Merkurieva			
Module teaching				