

ECP77614 — International Banking, Cryptocurrencies and Big Data

Module Information	
Module Code	ECP77614
Module Title	International Banking, Cryptocurrencies and Big Data
Department	<i>Economics</i>
Module Personnel	<i>Professor Maylis Avaro</i>
Academic Year	<i>2026-27</i>
Credit Weighting	<i>5</i>
Semester	<i>Semester 1</i>
Contact Hours	<i>8 hours of lecture and 3 hour of tutorials</i>

Module Content	
Module Description	How does money move across borders? Can cryptocurrencies and blockchain technology disrupt the international payment system? This module introduces students to the operations of global banks and the management of global liquidity and international monetary spillovers. Key topics include the utilization of Big Data by global banks for monitoring cross-border payments and by regulators for assessing international financial stability. The module discusses the latest innovations in cross border payments, including the impact of the development of fintech and cryptocurrencies. Topics covered include: 1. The Expansion of International Banking 2. Cross-border payments 3. Foreign Exchange Markets 4. International Investment Banking 5. The Regulation of International Banking Institutions 6. The rise of Fintech 7. Cryptography and payment security 8. Blockchains features 9. Stablecoins 10. Crypto exchanges 11. Smart contracts
Module Learning Aims	<i>The broad aims of the module (optional)</i>

Module Content

Learning Outcomes	On completion of the module, students will be able to: 1. Analyse the structure and operations of global banks and explain the mechanics of cross-border payments and international liquidity management. 2. Evaluate the implications of fintech innovations and decentralised technologies — including blockchains, stablecoins, and smart contracts — for the international monetary system. 3. Collect and analyse large-scale cryptocurrency transaction data using SQL across multiple blockchains.
Indicative Reading / Resources	Smith, R. C., Walter, I., & DeLong, G. (2012). <i>Global Banking</i> (Third Edition, Third Edition). Oxford University Press., part I and III.

Assessment

Assessment Components	<i>Coursework 30%, Exam 70%</i>
Assessment Details	

Additional Information

Prerequisites	<i>None</i>
Co-requisites	<i>None</i>
Any other information	<i>Anything else that should appear on the website (optional)</i>