

Postgraduate: Economics | Module Outlines 2025/6

International Banking, Cryptocurrencies and Big Data

ECP77614

Year	1
ECTS Credits	5
Contact Hours	10 hours of lectures and 5 hours of tutorials
Pre-Requisite	One module in Money and Banking
Semester	2
Module Leader and Lecturer	Professor Maylis Avaro
Contact Email	avarom@tcd.ie

Module Outline:

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 crossborder 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 Outcomes:

Students will learn practical skills for analysing banking data and to study transactions in cryptocurrencies. They will use the SQL language to collect big data cryptocurrencies movements on the different blockchains.



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Recommended Reading List:

Smith, R. C., Walter, I., & DeLong, G. (2012). Global Banking (Third Edition, Third Edition). Oxford University Press., part I and III.