

## H8EFS: e-Finance and Services

Module Code:	H8EFS
Long Title	e-Finance and Services <b>APPROVED</b>
Title	e-Finance
Module Level:	LEVEL 8
EQF Level:	6
EHEA Level:	First Cycle
Credits:	10
Module Coordinator:	TONY DELANEY
Module Author:	Simon Caton
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner will be able to:</i>	
<b>#</b>	<b>Learning Outcome Description</b>
LO1	Discuss nancial markets and how they work
LO2	Discuss financial markets and how they work
LO3	Distinguish among the principal classes of securities and alternative investments
LO4	Analyse new technology developments in FinTech as well as their regulatory issues
<b>Dependencies</b>	
<b>Module Recommendations</b>	
No recommendations listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Entry requirements</b>	

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Module Content & Assessment			
Indicative Content			
<b>Introduction to Capital Market, Banks and other Financial Institutions</b> The nature, role and function of financial markets, including money, bond, equity and derivatives market. Financial Institutions and roles, Primary and Secondary markets, Exchange Trading vs Over the Counter (OTC), Front, Middle and Back Office roles, Buy side/Sell side. Commercial, Retail and Investment Banking, Role of the Central Bank, the ECB in the EU and the Eurozone and the Fed in the US, Credit and Liquidity ratios. Regulation in Finance			
<b>Principles of Economics, Finance and Risk Management</b> Economic considerations of money (Monetary Policy, Quantity Theory of Money, Neo-Classical Theory.) Time Value of Money. Return and Risk;			
<b>Introduction to Securities, Asset Classes and FOREX.</b> Debt and Bond Markets, Equities and Stock Markets, Foreign Exchange and Money Markets, Alternative Investment Markets, Funds, Indices, Differing Returns on Different Asset Classes - Growth vs Income.			
<b>Technology in Financial Markets</b> Fundamentals of FinTech for Modern Markets HFT, data analytics and machine learning in quants teams, big data in risk assessment and portfolio optimisation, BitCoin and other virtual as well as complimentary currencies etc. Consideration of the strategic, operational and ethical implications of technology advancement.			
<b>Evolving nature of FinTech within Markets</b> Regulatory and pragmatic effects of technology and digitisation and the future for Finance and Markets.			
Assessment Breakdown			%
Coursework			40.00%
End of Module Assessment			60.00%
Assessments			
Full Time			
Coursework			
<b>Assessment Type:</b>	Continuous Assessment	<b>% of total:</b>	40
<b>Assessment Date:</b>	n/a	<b>Outcome addressed:</b>	
<b>Non-Marked:</b>	No		
<b>Assessment Description:</b> Selected Case Studies in e-Finance			
End of Module Assessment			
<b>Assessment Type:</b>	Terminal Exam	<b>% of total:</b>	60
<b>Assessment Date:</b>	End-of-Semester	<b>Outcome addressed:</b>	
<b>Non-Marked:</b>	No		
<b>Assessment Description:</b> n/a			
No Workplace Assessment			
Reassessment Requirement			
<b>Repeat examination</b> <i>Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.</i>			

## H8EFS: e-Finance and Services

Module Workload				
Module Target Workload Hours 0 Hours				
Workload: Part Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	24	Every Week	24.00
Tutorial	No Description	24	Every Week	24.00
Independent Learning	No Description	202	Every Week	202.00
Total Weekly Contact Hours				48.00

## Module Resources

### Recommended Book Resources

Kay, John. (2016), Other Peoples Money, Main. [ISBN: 1781254451].

DeFusco, Richard A. et al. (2015), Quantitative Investment Analysis (CFA Institute Investment Series), Wiley, [ISBN: 1781254451].

Lee, David and Kuo Chuen. (2015), Handbook of Digital Currency: Bitcoin, Innovation, Financial Instruments,, Academic Press, [ISBN: 0128021179].

Valdez, Stephen and Philip Molyneux. (2015), An Introduction to Global Financial Markets., Palgrave Macmillan, [ISBN: 1137497556].

Rishi K. Narang. Inside the Black Box: The Simple Truth About Quantitative Trading, Wiley, p.352, [ISBN: 1118362411].

Maureen Burton, Reynold Nesiba, Bruce Brown. (2010), An introduction to financial markets and institutions, M.E. Sharpe, Armonk, N.Y., [ISBN: 0765622769].

*This module does not have any article/paper resources*

### Other Resources

[Website],  
<http://www.annualreports.com>

[Website], CFO,  
<http://www.cfo.com/>

[Website], European Central Bank.  
<http://www.ecb.com/>

[Website], Federal Reserve.  
<http://www.federalreserve.com/>

[Website], International Journal of Financial Markets and Derivatives..  
<http://www.inderscience.com/jhome.php?jcode=ijfmd>

[Website], Journal of Applied Corporate Finance.  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1745-6622](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1745-6622)

[Website], Journal of Corporate Finance.  
<http://www.journals.elsevier.com/journal-of-corporate-finance/>

[Website], Journal of Emerging Market Finance.  
<http://emf.sagepub.com/>

[Website], Journal of Finance..  
[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1540-6261](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1540-6261)

Discussion Note: