

FIN383 Financial Technologies and Innovations

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

Synopsis:

This course examines the origins of Financial Technology (FinTech) and its role in transforming the financial services landscape since the global financial crisis in 2008. Students will learn how the financial services sector is being changed and transformed by new and evolving digital technologies. Topics included in the course are digital currencies, payment innovations, crowdfunding, block chain technologies, big data, robo-advisors, FinTech startups, and regulatory challenges. The course serves to prepare students to recognise the significance of the new technologies, the future of financial services and the role of stakeholders in the FinTech space.

The course will also expose students to the use of a computational platform, Python, to develop/automate investment strategies and measure investment performance that are inherent in a robo-advisor business.

Topics:

- Digital banking and the future of banks
- P2P network loans
- Crowdfunding and other alternative financing
- The payment innovations
- Big data and data analytics
- Cryptocurrency and Initial Coin Offering
- Blockchain technology
- Rise of FinTech development in China
- Financial inclusion
- Regulatory Challenges in FinTech
- Digital asset class and alternative investment
- Robo advisors and automation of investment strategies using Python programming

Learning Outcome:

- Distinguish how technology and regulation are impacting financial services and the drivers behind this trend
- Differentiate different classes of financial information systems such as payment systems, funds transfer networks, trading and settlement systems
- Discuss the alternative forms of financing and the features of crowdfunding
- Appraise the evolution of digital currencies with blockchain technologies
- Show an understanding of the information provided by big data and the importance of data analytics
- Examine the opportunities and challenges faced by FinTech startups
- Demonstrate the essential knowledge and interpersonal skills to exchange ideas about issues in financial technologies and innovations effectively in a team
- Demonstrate proficiency in writing on issues in financial technologies and innovations coherently
- Set up and use Python to automate investment decisions and return indicators regarding investment performance

Assessment Strategies - Regular Semester (Daytime Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-COURSE QUIZ 1	2
	PRE-COURSE QUIZ 2	2
	PRE-COURSE QUIZ 3	2
	TUTOR-MARKED ASSIGNMENT 1	18
	GROUP BASED ASSIGNMENT 1	20
	PARTICIPATION 1	6
Overall Examinable Components	ECA-REPORT	32.5
	ECA-VIDEO	12.5
	ECA-POWERPOINT	5
Total		100

*The information listed is subject to review and change.