

2. Prasanna Chandra: Financial Management: Theory and Practice, McGraw Hill Publishing.

## DISCIPLINE SPECIFIC ELECTIVE COURSE – 17: FINANCIAL TECHNOLOGIES

### CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Financial Technologies DSE- 17	4	3	1	0	-	-

#### Learning Objectives:

The goal of the course is to get the students acquainted with the dynamic changes in the financial sector generated by the Internet revolution.

#### Learning outcomes:

By studying this course, the students will be able to:

- Understanding of the nature of the internet revolution in finance.
- Knowledge of key digital technologies and products, and state reaction to the digital revolution.
- Knowledge of FinTech, big data analytics, and new financial business models.

#### Unit 1: Digital Transformation of Finance

**(9 hours)**

**Introduction:** A Brief History of Financial Innovation, Digitization of Financial Services, Introduction to FinTech & Funds, FinTech Transformation, FinTech Typology, Collaboration between Financial Institutions and Start-ups. Introduction to Regulation and future of Regulatory Technology.

**Crowdfunding:** Definition, Types and functioning of crowdfunding markets, Difference between traditional funding models and crowdfunding markets, Informational problems in the crowdfunding model.

**Unit 2: Payment Systems****(12 hours)**

Digitalization of the payment system, The historical evolution of the payment system, Attributes of a well-functioning payment system, Bank as guarantors of the payment system. New entrants and new payment models: risks for the banking system. FinTech applications in Banking & Non-Banking Financial Companies (NBFCs); Insurance; Payments; Lending; Audit; and Compliance. Electronic Clearing Service (ECS), Real Time Gross Settlement (RTGS), National Electronic Funds Transfer (NEFT), Immediate Payment Service (IMPS), Unified Payments Interface (UPI), Growth of Digital Payments in India, RBI guidelines on Digital Payments.

**Unit 3: Crypto Assets and Blockchains****(12 hours)**

**Introduction to Crypto:** Crypto an asset for trade and Crypto-currency, Problems with issuers credibility, Fin Tech & Securities Trading; Crypto currencies and its future as currency, blockchain as a registration mechanism, functioning of the block chain system. The integration of digital currency and blockchain and issuers incentive problems;

**Property Technology (Proptech):** FinTech of Real Estate; Possible alternative uses of blockchain technology in the economy and difficulties in its implementation. Use of bitcoin in money laundering. The regulatory debate. Introduction of Central Bank Digital Currency (CBDC). Other Emerging Financial Technologies: Internet of things (IOT) & AR/VR applications.

**Unit 4: FinTech, Big Data Analytics and New Financial Business Models****(12 hours)**

The use of data in traditional credit decisions, the combination of big data and machine learning to improve financing decisions. Smart accounts, customized financial products, risk management and fraud prevention. High frequency trading: opportunities and risks. Digital security, Challenge of confidentiality, integrity and availability. Digital securities as systemic risk in economy. Regulations on cybersecurity. Latest developments in field of Digital Finance.

**Essential/recommended readings:**

1. Lynn, T., Mooney, J. G., Rosati, P., & Cummins, M. (2019). Disrupting finance: FinTech and strategy in the 21st century (p. 175). Springer Nature.
2. Beaumont, P. H. (2019) "Digital Finance: Big Data, Start-ups, and the Future of Financial Services", Routledge.

**Suggestive readings:**

1. Relevant RBI Guidelines on Payment Systems and Digital Payments.
2. Phadke, S. (2020) “FinTech Future: The Digital DNA of Finance” Sage Publications.

**DISCIPLINE SPECIFIC ELECTIVE COURSE – 18: Mutual Funds Management**
**CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE**

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
<b>Mutual Funds Management DSE-18</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	-	-

**Learning Objectives**

This course has been designed to furnish students on the management and functioning of Mutual Funds. Besides providing an understanding about the risks & returns with respect to investing in the Mutual Funds and taking due care of the various concerned regulations.

**Learning outcomes**

After completing this course, students shall be able to:

- To get acquainted with the conceptual knowledge and underlying operations of the Mutual Funds.
- To comprehend various evaluations methods of Mutual Funds.
- To gain understanding on the regulatory and legal structure of the Mutual Funds.

**Unit 1: Introduction to Mutual Funds****(12 Hours)**

Introduction to

Mutual Funds – Concept, Structure; Role of mutual funds in capital market development;