

Teaching Lesson Plan

Semester-VIII

AMJ 1: FINANCIAL TECHNOLOGY AND ANALYTICS

Lecture hours: 60

OBJECTIVES: To impart the knowledge of financial technology revolution, and the disruption, innovation, and opportunity therein.

SN	Subject and Objectives	Lectures Hrs	Methodology	Evaluation Mode
Unit-I	Introduction	12Hrs		
	Evolution of technology in Financial Markets; FinTech for Entrepreneurs, Investors, Consumers; FinTech and the Transformation in Financial Services.	6	PPT, Illustrations	Q & A, Assignments
	The domains of FinTech; Fin Tech investments; FinTech Technologies; Business Models in Fin Tech. FinTech and Startups.	6	PPT, Illustrations	Q & A, Assignments
Unit-II	FinTech Business Applications	12Hrs		
	1. Lending and Personal Finance; FinTech and the Online Lending Landscape - Rise of alternate finance, future of SME lending.	4	PPT, Illustrations	CIA
	2. Funding Ecosystem; Crowd-funding and business financing; payments and retail transactions.	4		
	3. Digitization of Financial Services (Retail Banking & Corporate Banking).	4		
Unit-III	Digital Payments, Cryptocurrencies, and Blockchain	12Hrs		
	Digital Payments & Innovations; Cashless society; Developing Countries and DFS: The Story of Mobile Money; RTGS systems.	6	PPT, Illustrations	Q & A, Assignments
	Crypto-currencies and Blockchain – Understanding of Blockchain technology, its potential and application – overview of crypto currency, Legal and Regulatory Implications of Cryptocurrencies.	6	PPT, Illustrations	Q & A, Assignments
Unit-IV	Tech in India	12Hrs		
	1. FinTech in India: Opportunities and challenges; Role of FinTech in Financial Inclusion and	3	PPT, Illustrations	Q & A, Assignments
	2. Financial Integration; FinTech & Government Regulations.	3		
	3. Implications of FinTech Developments for Banks and Bank Supervision.	3		
	4. Social Implications of FinTech Transformation. Case studies on Airtel Payments Banks, ATOM, BHIM, BillDesk, Pay U, Zeta, PhonePe.	3		
Unit-V	Analytics	12Hrs		

	1. Artificial Intelligence and Machine Learning applications in Accounts and Finance; Understanding the technology enabling FinTech - and what constitutes a FinTech application.	3	PPT, Illustrations	Q & A, Assignments
	2. Future of AI in Robo-Advice; RPA (Overview of Robotic Process Automation) Issues of privacy management in the financial services environment.	3		
	3. Data Analytics in Financial Services; Data Security, its overview.	3		
	4. Cyber security – Overview of cybersecurity; industry's best practices and standards.	3		

Reference Books:

1. Akkizidis, I., & Stagars, M. (2015). Marketplace Lending, Financial Analysis, and the Future of Credit. New Jersey: Wiley.
2. Chishti, S., & Barberis, J. (2016). The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries. New Jersey: Wiley. Chishti, S., Craddock, T., Courtneidge, R., & Zachariadis, M. (2020). The PayTech Book. New Jersey: Wiley.
3. Diamandis, P. H., & Kotler, S. (2020). The Future Is Faster Than You Think: How Converging Technologies Are Disrupting Business, Industries, and Our Lives. New York: Simon & Schuster.
- Hill, J. (2018). FinTech and the Remaking of Financial Institutions. London: Academic Press, Elsevier.

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