

2.13 30113 FINANCIAL TECHNOLOGY (FINTECH) INNOVATIONS SPECIALIZATION

UNIT-1 THE FUTURE OF PAYMENT TECHNOLOGIES:

Discover the future of payment technology; from mobile payments to tokenization. In this course, you will learn new ways of making payments from consumer-to-business (C2B), from consumer-to-consumer (C2C), and from business-to-business (B2B). You will explore current payment system technologies to examine their strengths and weaknesses, and understand the ways technological innovation is changing these traditional systems. You'll learn about new front-end innovations like digital wallets and mobile payments and also discover back-end innovations like tokenization, mobile money, and new payment infrastructure.

UNIT-2 BLOCKCHAIN AND CRYPTOCURRENCY EXPLAINED:

The sudden rise in the value of Bitcoin and other cryptocurrencies, and its subsequent decline, focused the world's attention on cryptocurrencies as a means of payment. Block chain technology powers Bitcoin and has been hyped as the next new, transformative technology.

In this course, we first discuss the technical underpinnings of block chain and review key concepts such as decentralization and consensus algorithms. We then examine block chain as an asset and review the dynamics of the cryptocurrency markets. Finally, we examine block chain as a business solution, with a focus on understanding business cases in which block chain does and does not make sense.

UNIT-3 RAISING CAPITAL: CREDIT TECH, COIN OFFERINGS, AND CROWDFUNDING:

Consider the benefits and challenges of disruptive capital-raising technology.

Advances in technology have both systematized and democratized consumers' and business' access to capital. In this course, you will explore the ways in which technology has transformed access to consumer credit and access to seed capital for business projects. You will examine disruptive technologies in credit scoring, raising capital through tokenization, and the evolution of crowdfunding for both debt and equity financing. You will also learn how to differentiate between crypto-based capital-raising models.

UNIT-4 INNOVATIONS IN INVESTMENT TECHNOLOGY: ARTIFICIAL INTELLIGENCE:

Explore the evolution of AI investing and online wealth management.

Investing and managing your wealth online has never been easier, but how does AI investing work and what are the challenges? On this course, you'll explore how technology has changed the way we invest money. You'll consider the evolution of AI-driven online wealth management platforms, robo-advisors, and learn how they work and why they're successful. Moving from human-based data-driven investing strategies to neural networks, you'll assess the ability of artificial intelligence to make investment decisions and discover the role of AI and machine learning in making trading decisions.

References Books:

1. Robert Dittmar
 2. Professor of Finance Stephen M. Ross School of Business
 3. Andrew Wu Michael R. and Mary Kay Hallman Fellow, Assistant Professor of Technology and Operations and Finance Stephen M. Ross School of Business
- The mission of the University of Michigan is to serve the people of Michigan and the world through preeminence in creating, communicating, preserving and applying knowledge, art, and academic values, and in developing leaders and citizens who will challenge the present and enrich the future.

