

HKU Introduction to FinTech Course Syllabus

Module 1: What is FinTech?	
1.1	Module 1 Introduction
1.2	FinTech Transformation
1.3	FinTech Evolution 1.0: Infrastructure
1.4	FinTech Evolution 2.0: Banks
1.5	FinTech Evolution 3.0 & 3.5: Startups and Emerging Markets
Industry Showcase	Collaboration between Financial Institutions and Startups (The FinTech Association of Hong Kong)
1.6	FinTech Typology
1.7	Emerging Economics: Opportunities and Challenges
1.8	From Too-Small-To-Care to Too-Big-To-Fail
1.9	Introduction to Regulation
Industry Showcase	The Future of RegTech and Six Technologies Impacting It (Thomson Reuters)

Module 2: Payment, Cryptocurrencies and Blockchain	
2.1	Module 2 Introduction
2.2	Individual Payments
2.3	Developing Countries and DFS: The Story of Mobile Money
2.4	Developing Countries and DFS: Regulation of Mobile Money
2.5	RTGS Systems
2.6	The ABCDs of Alternative Finance (Parts 1 & 2)
2.7	Building a New Stack
2.8	Cryptocurrencies
Industry Showcase	Introduction to Digital Asset Market (Gatecoin)
Industry Showcase	Stablecoins (Feron Labs)
Industry Showcase	Legal and Regulatory Implications of Cryptocurrencies (King & Wood Mallesons)
2.9	What is Blockchain?
Industry Showcase	The Benefits from New Payment Stacks (Applications of Ripple for Standard Chartered Bank)

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Module 3: Digital Finance and Alternative Finance	
3.1	Module 3 Introduction
3.2	A Brief History of Financial Innovation
3.3	Digitization of Financial Services
3.4	FinTech & Funds
Industry Showcase	How AI is Transforming the Future of FinTech (Microsoft)
Industry Showcase	How Will AI Transform Financial Analysis? (MioTech)
Industry Showcase	Ensuring Compliance from the Start: Suitability and Funds (Investment Navigator)
3.5	Crowdfunding – Regards, Charity and Equity
3.6	P2P and Marketplace Lending
3.7	The Rise of Chinese TechFins – New Models and New Products
3.8	ICOs
Industry Showcase	Collaborative and Contextual Banking (WeBank)

Module 4: FinTech Regulation and RegTech	
4.1	Module 4 Introduction
4.2	FinTech Regulations (Parts 1 & 2)
4.3	Evolution of RegTech
4.4	RegTech Ecosystem: Financial Institutions
4.5	RegTech Ecosystem: Startups
4.6	RegTech Startups: Challenges
4.7	RegTech Ecosystem: Regulators
Industry Showcase	The Application of AI in Smart Regulation (Mindbridge)
4.8	Regulatory Sandboxes
Industry Showcase	Balancing Innovation and Regulation Challenges in Hong Kong (Charles Mok)
4.9	Smart Regulation
4.10	Redesigning Better Financial Infrastructure: India Stack

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Module 5: Data and TechFin	
5.1	Module 5 Introduction
5.2	History of Data Regulation
5.3	Data in Financial Services
Industry Showcase	Application of Data Analytics in Finance (vPhrase)
5.4	European Big-Bang: PSD2 / GDPR / MiFID2
Industry Showcase	PSD2: Open Banking API for Startups (Gini)
Industry Showcase	Methods of Data Protection: GDPR Compliance and Personal Privacy (Exate Technology)
5.5	Digital Identity
5.6	Change in Mindset: Regulation 1.0 to 2.0 (KYC to KYD)
5.7	AI and Governance
5.8	New Challenges of AI and Machine Learning
5.9	Data, Metadata and Differential Privacy
5.10	Data is the New Oil: Risk of Breach
Industry Showcase	Cybersecurity Industry Update (Microsoft)

Module 6: The Future of Data-Driven Finance	
6.1	Module 6 Introduction
6.2	Case Study 1: Revolut
6.3	Case Study 2: Alibaba
6.4	Case Study 3: Aadhaar
6.5	Case Study 4: Credit Karma
6.6	Case Study 5: Digibank
6.7	Conclusion to Case Studies
6.8	FinTech Big Trends – Looking Forward
Industry Showcase	The Next Big Opportunities in FinTech (Charles Mok)
Industry Showcase	The FinTech Landscape in China – What’s Next? (Charles Mok)
Industry Showcase	Research and Development (R&D) and Interactions with Industries (Charles Mok)