



Subject: Introduction to Fintech - MBAFT13509

Type of course: Major (Core)

Prerequisite:

Basic understanding of financial systems, digital technologies, and regulatory frameworks.

Rationale:

This subject equips students with essential knowledge and skills to navigate and innovate in the rapidly evolving financial technology landscape.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P		C	Theory Marks		Practical Marks		
			ESE		MSE	V	P	ALA	
04	00	00	04	60	30	10	00	50	150

Legends: CI-Class Room Instructions; T – Tutorial; P - Practical; C – Credit; ESE – End Semester Examination; MSE- Mid Semester Examination; V – Viva; CA - Continuous Assessment; ALA-Active Learning Activities.

Course Content:

Sr. No	Course content	Hrs.	% Weightage
1	<p>Fundamentals of Fintech</p> <p>Introduction to Fintech, Definition and scope, Historical evolution and key milestones, Types of Business Models for Fintech, Key sectors: banking, insurance, investment, payments. Challenges and Limitations of Fintech, Key benefits of Fintech, Regulatory Environment: Global and local regulations, Compliance and risk management</p>	15	25



2	<p>Digital Payments and Crypto currencies</p> <p>Digital Payment Systems: Mobile payments, Peer-to-peer (P2P) transfers, Digital wallets and payment gateways. Crypto currencies: Bit coin and the rise of crypto currencies, Block chain technology in crypto currencies, Crypto currency mining and trading. Central Bank Digital Currencies (CBDCs): Concept and development, Differences from crypto currencies. Security and Fraud Prevention: Cyber security in digital payments, Fraud detection and prevention mechanisms</p>	15	25
3	<p>Fintech Innovations in Banking and Insurance</p> <p>Fintech in Banking: Neobanks and challenger banks Open banking and APIs, Lending and credit innovations (P2P lending, crowd funding). Fintech in Insurance (Insurtech): Digital insurance platforms, Usage-based insurance, Claims processing and automation. Robo-Advisors and Wealth Management: Automated investment services, Portfolio management algorithms. Case Studies: Success stories and failures in Fintech banking and insurance.</p>	15	25
4	<p>Future Trends and Strategic Considerations in Fintech</p> <p>Future Trends in Fintech: Innovations on the horizon, Impact of 5G on Fintech, Quantum computing in financial services. Strategic Management in Fintech: Business models and revenue streams, Strategic partnerships and collaborations, Fintech startup ecosystem and venture capital. Ethical and Social Implications: Financial inclusion, Ethical AI in financial services, Data privacy concerns.</p>	15	25

Continuous Assessment:

Sr. No	Active Learning Activities	Marks
1	<p>Case Studies and Analysis:</p> <p>Students will choose a popular Fintech app (e.g., mobile payment app. Banking app) and analyze it based on specific criteria like target audience, features, and security measures and upload their findings in PDF format on GMIU Web Portal.</p>	10



2	Presentation Challenge: Faculty will provide a topic related to the subject and students will prepare a presentation on the topic given to them and upload their PPT's on GMIU Web Portal.	10
3	Crowd Funding Proposal: Students have to prepare a hypothetical crowd funding proposal and upload on the GMIU Web portal.	10
4	Block Chain Analysis: Students will explore the available crypto currencies in the market and prepare a review report and upload the PDF on GMIU Web Portal.	10
5	Case Study: Faculty will provide a topic and Idea related to case study. Students will prepare the solutions on the given case / situation and upload it to GMIU Web Portal.	10
Total		50

Suggested Specification table with Marks (Theory):60

Distribution of Theory Marks (Revised Bloom's Taxonomy)						
Level	Remembrance (R)	Understanding (U)	Application (A)	Analyze (N)	Evaluate (E)	Create (C)
Weightage	20%	30%	30%	10%	10%	-

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcome:

After learning the course, the students should be able to:	
CO1	Understand the foundational concepts of Fintech and the ecosystem it operates within.
CO2	Gain knowledge of digital payment systems, crypto currencies, and their underlying technologies.
CO3	Analyze how Fintech innovations are transforming banking and insurance sectors.



CO4	Evaluate future trends, strategic considerations, and ethical implications in Fintech.
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Instructional Method:

The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board, may also use any of tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in laboratory.

Reference Books:

- [1] Arner, D. W., Barberis, J. N., & Buckley, R. P. (2016). *The Evolution of Fintech: A New Post-Crisis Paradigm* Cambridge University Press.
- [2] Chishti, S., & Barberis, J. (2016). *The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries* Wiley.
- [3] Puschmann, T. (2017). *Fintech: Grundlagen der digitalen Transformation*. Springer Vieweg.
- [4] Kuo Chuen, D. L. (Ed.). (2015). *Handbook of Digital Currency: Bitcoin, Innovation, Financial Instruments, and Big Data*. Academic Press.
- [5] Gomber, P., Koch, J. A., & Siering, M. (2017). Digital Finance and FinTech: Current Research and Future Research Directions. *Journal of Business Economics*, 87(5), 537-580.

