Indian Institute of Information Technology, Allahabad

Department of Information Technology

(B.Tech. IT- Business Informatics- Sem-4)

1. **Name of the Course:** Foundations of FinTech
2. **Credits-2**
3. **LTP Structure of the course: 1-0-1**
4. **Objective of the course: To familiarize the students with the working knowledge of the subject**
5. **Prerequisites: Prior course on 'Introduction to finance' in 3rd semester**
6. **Relationship of Course to Rest of Curriculum:** The course is related to the other courses in multidimensional ways.
7. **Operation Track**: Through regular classes, assignments, presentations, quizzes etc.
8. **Course Plan:**

Components	Unit	Topics for coverage
Component 1	Unit 1	**Introduction & History of Data Regulation** FinTech Transformation, FinTech Evolution 1.0, FinTech Evolution 2.0, FinTech: Opportunities and challenges; a Case study on FinTech: The Rise of new TechFins – New Models and New Products- Innovative products in mobile-based, person to person, credit cards, pos based ecosystem
	Unit 2	Cryptocurrencies and Blockchain; Alternative Finance; Developing Countries and DFS: The Story of Mobile Money; Developing Countries and DFS: Regulation of Mobile Money; Legal and Regulatory Implications of Cryptocurrencies; ICO (Initial coin offering)
Component 2	Unit 3	Digital Finance; A Brief History of Financial Innovation; Digitization of Financial Services; Crowdfunding; FinTech & Funds, Case study of FinTech startups; FinTech ecosystem, players, processes, modes and various charges; FinTech Regulations; Challenges of Data Regulation; Innovation in consumer and retail payments led by govt & private sector; new payments banks
	Unit 4	AI is Transforming the Future of FinTech; AI basics ,Governance; New Challenges of AI and Machine Learning in FinTech; AI in Smart Regulation and Fraud Detection; Redesigning Better Financial Infrastructure-case studies; Data in Financial Services Application of Data Analytics in Finance; Methods of Data Protection: GDPR Compliance and Personal Privacy; Digital Identity; Case

		studies on data-driven finance- Alibaba, Aadhar, Paytm, BHIM etc.

Learning Goals:

1. To equip the students, to understand the basics of FinTech;
2. To have a working knowledge of FinTech operations;

Books

- **The Fintech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries** by Susanne Chishti
- **Digital Bank: Strategies to launch or become a digital bank (Kindle Edition** by Chris Skinner
- **Fintech in a Flash: Financial Technology Made Easy by** Agustin Rubini
- **The Business Blockchain: Promise, Practice, and Application of the Next Internet Technology** by William Mougayar