



SPARC Course on Digital payments and Digital Money

Sponsored by Scheme for Promotion of Academic and Research Collaboration (SPARC) Ministry of Education, Govt. of India



COURSE DESCRIPTION

This course offers a foundational understanding of digital payment systems and digital money in today's financial landscape. It explores how emerging technologies such as biometrics, blockchain, and fintech innovations are reshaping traditional banking. Students will learn to evaluate digital financial solutions from both technical and economic perspectives. The course emphasizes design thinking, customer-centric innovation, and policy frameworks relevant to India. Through case studies and workshops, participants will gain practical insights into how digital technologies can enable secure, efficient, and inclusive financial ecosystems.

LEARNING OBJECTIVES

- To understand the principles and technologies behind digital payments and digital currencies
- To explore the economic, regulatory, and security aspects of digital financial systems
- To apply design thinking for fintech innovation tailored to societal needs
- To evaluate and design secure, user-centric digital money solutions
- To build confidence and insight in developing and pitching new financial technology ideas



Scheme for Promotion of Academic and Research Collaboration (SPARC) aims at improving the research ecosystem of India's Higher Educational Institutions by facilitating academic and research collaborations between Indian Institutions and the best institutions in the world from 28 selected nations to jointly solve problems of national and/or international relevance.

COURSE OUTLINE

- Introduction to Digital Payments.
- Value Creation in the Digital Economy
- Design Thinking for Fintech Solutions
- Digital Technologies & Biometrics
- Tech-Economics Framework in Indian Context
- Market Disruption and Unmet Needs
- Designing Digital Money
- Blockchain Technologies and Economic Models
- Bitcoin and Private Digital Currencies
- Future Technologies & Policy Planning

DELIVERY METHOD : OFFLINE MODE

IMPORTANT DATES

Duration: 23rd June, 2025 – 30th June, 2025

Last date of Registration: 20th June, 2025

Course coordinators :

- Dr. Ranjay Hazra, Assoc. Prof., Department of EIE, NIT Silchar
- Dr. Ashim Kumar Das, Assoc. Prof., Department of Management Studies, NIT Silchar
- Dr. Manas Kumar Bera, Assoc. Prof., Department of Elec. Engg., NIT Rourkela

COURSE INSTRUCTOR



Dr. Hari Krishna Garg
Associate Professor,
Department of Electrical & Computer Engineering
National University of Singapore,
Singapore

TARGET AUDIENCE

Faculty members, Research Scholars, PG and UG Students, Persons from Industries and Research Institutes.

REGISTRATION LINK :

<https://forms.gle/rhBfRHHLJ1corfNZ8>

REGISTRATION FEE: NIL

VENUE

Seminar Hall
Department of Electronics and Instrumentation
Engineering
National Institute of Technology Silchar

CONTACT

Dr. Ranjay Hazra
Associate Professor, Dept. of Electronics and
Instrumentation Engineering
Phone:- +918638420240
Email : ranjay@ei.nits.ac.in