

ELECTIVE COURSE

Course Title:

TECHNOLOGIES IN FINANCE

Course Description:

Corporate Finance is all about how corporations make financial decisions. The Corporation's financial manager faces two broad financial questions: First, what investments should the corporation make? Second, how should it pay for those investments? The investment decision involves spending money; the financing decision involves raising it. A large corporation may have hundreds of thousands of shareholders. They want the financial manager to increase the value of the firm as reflected in its current stock price. The problem is how to do it. Simply put, Corporate Finance is concerned about understanding what financial managers should do to increase company value.

Instructor Information:

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Course Objectives:

- To get introduced to technology advances in banking and finance
- To engage learners with examples of application of technology in payments, blockchain and accessing information using APIs
- To understand, with the help of case studies, how the Fintechs are transforming the businesses.

Course Content:

PART 1: FinTech and Digital Transformation

1. Introduction to FinTech and Digital Transformation
2. Government facilitation of digital economy
3. Technology enablers – Blockchain
4. Technology enablers Digital Payments
5. Case Study Assessment - 1 – Citibank
6. FinTech in Banking and Lending – Borrowing – 1
7. FinTech in Banking and Lending – Borrowing – 2
8. Case Study Assessment - 2 – Credex

ELECTIVE COURSE

9. Fintech in Wealth Management and Capital Markets

10. Other types of Fintech, Challenges, Concerns and Trends in FinTech

PART 2: AWS and Python

1. AWS Setup - The following are the topics that will be covered in this sub-module

- Getting started with EC2
- Understanding AMI
- Understanding Security groups, Key pairs
- Difference between Elastic IP & Public IP

2. REST APIs using Python - The following are the topics that will be covered in this sub-module

- What is an API?
- Making API Requests in Python
- Making Our First API
- Working with JSON Data in Python
- Using an API with Query Parameters

Requirement for AWS Setup - To perform hands-on with Amazon Web Services, each student will be required to specify a valid credit or debit card number. The AWS instance that will be created will be a free instance. The card will not be charged by Amazon. However, specifying card details is mandatory.

References:

Unfortunately, there are no text books on this topic. The course will be taught using case studies to make it easier to relate with the concepts. Notes will be provided.