

## Introduction

IIT Bombay in collaboration with J. P. Morgan, will be conducting the remaining two courses of Financial Literacy and Technical Skills, in a series of four short courses under the 'College to Corporate' program.

The program is primarily targeted at pre-final and final year students, to help them prepare for the corporate world, and perform better in the recruitment process. Corporates that recruit the final year students have certain expectations from their prospective employees. If the students/candidates are made aware of these expectations and the skills required fulfilling these expectations, their journey from College to Corporate would become easier.

The program will be conducted using the hybrid/blended MOOCs pedagogy developed at IIT Bombay. In this approach, participants learn online, as also through face-to-face interaction. The course content would be made available on the Hybrid MOOCs platform (<http://iitbombayx.in>). The students would be required to do the online activity before and after the face-to-face interaction (through A-VIEW). In each course, the face-to-face interaction will be conducted fortnightly during the weekends. In additions, student will be required to complete weekly activities in their college (RC). The program comprises of four different courses. These are as follows.

- Technical Skills
- Financial Literacy

## Teaching Faculty

- **Prof. Varadraj Bapat**, Shailesh J Mehta School of Management, IIT Bombay
- **Prof. S.V.D. Nageswara Rao**, Shailesh J Mehta School of Management, IIT Bombay
- **Ms Rupali Chimote**, J.P. Morgan
- **Mr Pranay Dugar**, J.P. Morgan
- **Prof. D. B. Phatak**, Department of CSE, IIT Bombay
- **Mr Amol Hatwar**, J.P. Morgan

## Course Content

### Financial Literacy-

Financial Awareness Basics:

- Introduction to Macroeconomics & Microeconomics
- Introduction to Fiscal & monetary policy
- Introduction to financial markets, products and participants

Basics of Financial systems

- Understand how banking model works and how they make money
  - Learn about products and services offered by banks
  - Learn about the various modes of payment
- Building Blocks of Financial Accounting

- Understand basic accounting concepts and rules
- Understand what are financial statements
- Understand basics of costing
- Overview of Financial Planning & Budgeting

- Understand what is meant by personal financial planning and budgeting and why it is important?
- Understand how to structure one own personal financial plan including some examples of open source tools that are available for personal financial planning & budgeting.
- Understand how financial planning & budgeting works in a corporate environment and its importance

### Technical Skills-

- Version Control: Why?  
Types: Central, Distributed. Examples with git
- SDLC: Introduction, Develop, Test, Deploy, Maintain
- Historic Trends: Waterfall, Spiral, Agile / Scrum
- Python Basics: Assignments, Imperative Statements
- Loops, Functions, Classes and Objects
- Architectural MVC Pattern: Model, View, Controller. Examples
- MVC on the Web: Server-side, client-side. Flask
- ORMs: Objects, Stores, Marshalling, Serialization
- Example with SQLAlchemy
- Micro services: Monoliths, Modules, SoA, Containers

- Test Driven Development: PyUnit
- Cyber
- Cloud Primer
- Big Data
- How stock exchange works? – Case Study

## Course Fee

There is **no course fee**. Students have to attend the A-VIEW interaction and carry out other activities at respective Remote Centres.

## Who Should Attend

The program is restricted to students belonging to participating remote centres. The preference for participation should be given to the pre and final year students. However, other students can also attend the courses, if there are seats available in the remote centre. The remote centre has the authority to decide for the candidates, who stand to benefit more. Students have choice to participate in all the four courses.

## Duration and Venue

S. No	Course Name	Schedule	Face-to-face interactions
1	Financial Literacy	23 January – 18 February 2018	- 03 Feb, 2018 - 17 Feb, 2018
2	Technical Skills	20 February – 18 March 2018	- 03 March, 2018 - 17 March 2018

1. **Online work by individual participants:** Each student is expected to access the online

platform using a PC at home or college, on any convenient day and time during the week, with an online test every week. The online activity is available on IITBombayX platform ([www.iitbombayx.in](http://www.iitbombayx.in)), Each participant has to spend 2 to 3 hours of efforts per week for each course.

- 2. Face-to-face interaction sessions:** Interactive sessions with students will be conducted by the faculty from IIT Bombay/ Industry. Students will have to physically attend these sessions at their chosen designated Remote Centres (RCs). The discussions and local tutorial sessions will be moderated by the Course Coordinators at each RC. This activity will be conducted on the weekends.
- 3. Weekly activities in RCs:** Participating students will need to carry out presentations, mock interviews, team projects, etc., as required for each course. These activities will be conducted under overall supervision of the local course coordinator.

### Criteria for Certification

Students, who successfully complete a course, as per the grading policy, will receive an honour code certificate for each online course. The certification may be subject to the endorsement by the course coordinator at RC, that the student has completed the expected work component at the RC.

### How to Apply

To register online, please visit:  
<http://www.it.iitb.ac.in/plc101x/announcements.html>

Enrollment will be strictly online, and no other mode of application will be entertained. In the registration form, only the list of participating remote centres will be available. The program is restricted to students belonging to participating remote centres

The Online registration for 'Financial Literacy and

Technical skills' will start from 09 January and 23 January, 2018 respectively.

**The last date of registration for Financial Literacy is 24 January and for Technical skills is 19 February, 2018.**

### Registration process for the Program:

- [Sign up](#) using your valid email id.
- After verification, your account will be created
- Login on the website with the verified account
- Go to Announcements, Select the program and register.
- After successful registration, you will receive an automated email. Your name will be listed in the "List of Participants page".

The URL to see details is  
<http://www.it.iitb.ac.in/plc101x/announcements.html>

### Important Note:

Live recording of the course and other created content will be released under Open Source, through a portal. All participants are required to agree a No Objection Certificate for such release of content contributed by them during and after the program. All contributors will be acknowledged.

### Address for communication:

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### Four-Week courses

on

## “College to Corporate program”

(These courses will be offered in a blended/Hybrid mode)

23 January – 18 February 2018

and

20 February– -18 March 2018

Conducted by

**IIT Bombay**



### Course Coordinator

Professor Deepak B. Phatak  
Department of Computer Science & Engineering

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