

From the academic session, 2015-16, SGGSCC, initiates two new **Add-on courses**, namely, (1) Currency, Commodities and Derivatives and (2) Financial Modeling. Both these courses are in joint collaboration with, Bombay Stock Exchange Institute Limited. The interested students can download the consent form from the college website and submit the same, completely filled, in the college at window **number**. The students are requested to note the following:

- These courses are open to students who are admitted to SGGSCC.
- The first course is open to all (first, second and third year students from all the streams; Commerce, Economics and Computer Science), and the second course to only second and third year students of the college.
- The fees per course would range between Rs 16,000 to 20,000, depending upon the total students registering for the course.
- The duration for each course is 100 hours, which is evenly spread over two semesters. Classes would be held in the college premises in the afternoon, from 2.30 pm to 5.00pm on two days in a week for approximately two and a half months, starting from 1stAugust.
- A student would become eligible to receive the certificate of the respective course on completion of the following: (a) by scoring at least 50% marks in each of the three examinations; Mid-term examination, End-term examination, and End-term project and (d) maintaining at least 60% attendance. All these examination would be held at the SGGSCC college premises.
- The certificate will be jointly issued by SGGSCC and BIL.
- Study material and the faculty would be provided by the Bombay Stock Exchange Institute Limited.

Course 1:

Currency, Commodities and Derivatives - 100 hrs.

PART 1: General Economic Overview (10 hrs)

- Introduction to Indian Financial System
- Time Value of Money
- Introduction to Macro Economics
- Basics of Financial Planning
- Capital Markets
 - Evolution of Capital Markets
 - Role of Regulator in Financial Markets
 - IPO Book Building Processes
 - Clearing Settlement
 - DEMAT and Depository and their role
 - Surveillance & Risk Management

Part 2.1: Stock Market (15 hrs)

- Secondary Markets,
- Trading Clearing and Settlement,
- Rolling Settlement, BOLT,
- Mutual Funds,
- Dematerialisation of Shares,
- Surveillance, Sensex and Other Indices,
- Introduction to Futures and Options,
- Primary Markets, Book
- Building & IPOs, Listing,
- Debt Market,
- Investors' Grievances Redressal Systems of BSE,
- Introduction to Fundamental Analysis & Technical Analysis.
- Mock Trading

Part 2.2: Commodity & Currency Market (25hrs)

- An Overview of Commodity and Currency Markets
- Operation of Commodity & Currency markets
- Fundamental Analysis- Currency Markets
- Fundamental Analysis- Commodity Markets
- Technical Analysis
- Application of Derivatives in Commodity & Currency Markets
Commodity & Currency Pricing
- Application of Fundamental & technical Analysis in Global Fin Markets
- Trading Strategy for Commodity and Currency markets
- Risk management for Commodity and Currency markets
- Mock Trading

Part 3: Trading & Hedging Strategies using Derivatives (50hrs)

- **Futures Basics:** Futures Product Specifications, Open Interest, Mark-to-Market Margining
- **Option Basics:** Concept, Time Decay; Strike prices Basic Put-Call strategies
- **Strategy:** Futures: Stock and Index Futures, Basket - Pair Trading, Basis Trading
- **Synthetics:** Synthetic Call and Put strategies, Synthetic Futures Strategies
- **Strategy:** Spread Strategies; Exotic Strategies; Covered Call Strategies.
- Special coverage of crack spreads, dark spread, frac spread, etc. with case study and numerical problems on application of concept.
- **Pricing:** Futures Pricing: Cost of Carry, Expectation Hypothesis, Fair Value Pricing; Option Pricing: How to leverage it for derivatives trading, Put-Call Parity, American and European Options Pricing, Dividend and non-Dividend Paying Stocks
- **Arbitrage and Hedging:** Futures - Futures and Cash - Futures; Options Arbitrage; Hedging: Types of Risk: Basis Risk, Systematic and Unsystematic Risk Utilities of a Hedge for Mutual Funds Cross Hedging; Protective Put, Fencing Strategies, Portfolio Hedging Strategies, Tailing the Hedge - Case - Live Portfolio

- **Strategy - Greeks:** Delta Neutral strategies, Delta - Gamma neutrality, Delta v/s Time; Delta v/s Volatility; Gamma v/s Time and Volatility, Vega, Theta and Rho; Volatility Trading Strategies. Advanced concepts in Options strategies
- **Forecasting** using Options and Futures: Put - Call Ratio; Volatility Forecasting Futures: Forecasting Strategies: Open Interest - Volume and Price Patterns, Volatility Index
- How to trade using Options, Futures, Swaps, Bonds etc;
- Exotic Derivatives: Electricity, Freight, Weather, Emissions (Carbon Credits)

Course 2:

Financial Modeling Course - 100 hrs.

Module1: Introduction to Financial Modeling and Spreadsheet Essentials (15hrs)

- Introduction to Financial Modeling
 - Strengths and weaknesses of spreadsheets
 - Golden rules of spreadsheet design
 - Do we make the most of modeling?
- Spreadsheet essentials
 - Lookup and reference functions
 - NPV and IRR functions
 - Data tables
 - IF function
 - Excel Skills - Shortcuts, Formulas, Array Function and Pivot Tables
 - VBA
 - Macros
 - Simple exercise/models in excel

Module 2: Integrated financial modeling I (Data, cost and revenues) (20 hrs)

Frameworks and concepts covered

- Data Collection and Data Structuring
- Preliminary Scrutiny of the Data and Information
- Understand the Business Model and Operating Model
- Modeling the Historical Statement
- Business Drivers Identification and Modeling
- Modeling Assumptions for Future Action
 - Modeling Revenue Build-up - projecting the future revenues
 - Modeling Cost Build-up - projecting the future cost
 - Modeling the Asset Schedule

Module 3: Integrated financial modeling II (Tax planning) (15hrs)

- Modeling the Depreciation Schedule - Book and Income Tax Depreciation
- Working Capital & Term Loan Modeling - Debt Infusion
- Tax Modeling

- Modeling MAT and MAT credit
- Modeling Impact of Accumulated Losses, Current Tax and Deferred Tax on Tax Payable

Module 4: Integrated financial modeling (Financial statement analysis) (25hrs)

- Equity Modeling - Equity Infusion
- Modeling Paid Up Capital and Share Premium Account
- Modeling Retained Earning Schedule
- Modeling the projected P/L and BS
- Modeling the projected Cash Flow Statement
- Conducting Covenant Testing
- Performing Ratio Analysis
- WACC and Cost of Equity Analysis
- Performing Valuation using DCF (FCFF & Enterprise Value) and Comparable analysis (Relative Valuation)
- Performing sensitivity/scenario analysis

Case study 1

Case study 2

Case study 3

Module 5: Measuring Risk (10hrs)

- Estimating betas with regression analysis
- Using daily, weekly, and monthly data
- Testing market efficiency
 - With regression analysis
 - With pivot tables
 - Recording and editing macros

Module 6: Advanced risk analysis (10hrs)

- **Sensitivity, Scenario**
- Monte-Carlo simulation
- Risk analysis of discounted cash flow models
- Spreadsheet features
 - Using @Risk for Monte-Carlo simulation
 - Combining macros with @Risk

Case study 1

Case study 2

Case study 3



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REGISTRATION FORM

NAME OF THE PARTICIPANT (Please keep a space between two words) _____

NAME OF THE PARENT(FATHER/MOTHER): _____

NAME OF THE PROGRAMME : _____

DATE OF THE PROGRAMME :

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RESIDENTIAL ADDRESS

LINE 1 : _____
LINE 2 : _____
CITY : _____
AREA/DISTRICT : _____
STATE : _____ PIN _____

MOBILE NO

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OFFICE ADDRESS (IF ANY)

LINE 1 : _____
LINE 2 : _____
CITY : _____
AREA/DISTRICT : _____
STATE : _____ PIN _____

RESIDENCE

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QUALIFICATION : _____ MARKS (in last Examination passed) _____

E MAIL : _____

PAYMENT DETAILS

DD No :

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FOR OFFICE USE ONLY

Issuing Bank : _____

Reg. No. _____

Branch : _____

Receipt No : _____

Cash Deposit Transaction Number (Bank of India) _____

Place : _____

Date :

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(CANDIDATE'S SIGNATURE)

(PARENT'S SIGNATURE)

1. Registration Form should be accompanied with full payment through a Demand Draft in favour of 'BSE Institute Ltd payable at Mumbai.
2. The admission is given on a first-come-first-serve basis.

No refund of fees will be permissible to candidates who have registered and paid for the program.