# SOS 2020-FINANCIAL MATHEMATICS

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## SPECIALISATION - Quantitative Modelling

## **PLAN OF ACTION**

# Topics to be covered

Following are the goals for me to learn during summers:

- Fundamentals of Matlab
- Finance and Quantitative Modeling
    1) Fundamentals of quantitative modeling
    2) Introduction to spreadsheets and Spreadsheets and models
    3) Financial acumen for non-financial managers
    4) Introduction to corporate finance

# Timeline

Week 1: [1 april - 7 april]: MATLAB fundamentals(2 hours /day)

Week 2: [8 april - 14 april]: MATLAB fundamentals(2 hours/day)

Week 3: [15 april-21 april]: Fundamentals of quantitative modeling

Linear models and optimisation

(2 hours/day)

Week 4:[21 april-28 april]: Probabilistic models

Regression models

(2 hours/day)

Week 2: [29 april - 5 may]: Introduction to spreadsheets and models

(2 hours/day)

Week 2: [6 may - 12 may]: frameworks of financial reporting(2 hours/day)

Week 2: [12 may - 19 may]:analysing financial performances using real life

examples(2 hours/day)

Week 2: [20 may - 26 may]: Introduction to corporate finance(2 hours/day)

# Approach

Fundamentals of Matlab: from the official website of MATLAB:
https://in.mathworks.com/

Fundamentals of quantitative modeling: from a course in
coursera:https://www.coursera.org/specializations/finance-quantitative-modeling-analysts