

**NIRMA UNIVERSITY**  
**Institute of Management**  
**Master of Business Administration (Full Time) Programme/**  
**Integrated Bachelor of Business Administration-Master of Business**  
**Administration Programme/**  
**Master of Business Administration (Family Business &**  
**Entrepreneurship) Programme**

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<b>Course Code</b>	<b>MFT5SEEF12 MBM5SEEF12 MFB5SEEF13</b>
<b>Course Title</b>	<b>Financial Modelling using Spreadsheets</b>

**Course Learning Outcomes (CLO):**

At the end of the course, the students will be able to:

1. Apply built-in finance functions and other functions as well as write required formulas for financial analysis.
2. Make use of advanced applications like Simulation, Solver, etc. in the analysis.
3. Develop trend-lines, and define and run keystroke macros.
4. Develop financial models for different applications.

**Syllabus**

**Teaching Hours**

<b>Unit I: Using Built-in Financial Functions</b> <ul style="list-style-type: none"> <li>• Functions related to Time value and valuation: NPV, XNPV, IRR, XIRR, MIRR, PV, FV, PMT, RATE, NPER, CUMPRINC, CUMIPMT Functions.</li> <li>• Advanced Spreadsheet Features: IF, DATE, LOOKUP, Circular Reference Problem</li> </ul>	03
<b>Unit II: Financial Modelling</b> <ul style="list-style-type: none"> <li>• Preparing Projected Financial Statements</li> <li>• Conducting Project Appraisal and Sensitivity Analysis</li> <li>• Modelling Option Pricing, Option Greeks, Implied Volatility</li> </ul>	06
<b>Unit III: Advanced Applications in Financial Modelling</b> <ul style="list-style-type: none"> <li>• Solver Applications</li> <li>• Monte Carlo Simulations</li> <li>• Trend-lines Building</li> <li>• Introduction to Key-stroke Macros</li> </ul>	06

**Suggested Readings:**

1. Winston, W., *Microsoft Excel data analysis and business modeling*. Microsoft press.
2. Sengupta, C., *Financial analysis and modeling using Excel and VBA*, John Wiley & Sons.
3. Rees, M., *Financial Modelling in Practice: A concise guide for intermediate and advanced level*, John Wiley & Sons.

w.e.f. Academic Year 2019-20 and onwards