Mindluster Platform

# About the course Mathematical modeling with excel

## Course Presenter : IIT Roorkee July 2018

Enhance your professional skills with our comprehensive online course, Mathematical Modeling with Excel. This training course is designed to provide you with practical expertise in utilizing Excel for complex mathematical modeling, a vital skill in today's data-driven world. Whether you're looking to advance your career, improve decision-making, or gain a competitive edge in the Middle East, this certified course offers valuable insights and hands-on experience. Throughout this course, you will learn how to apply mathematical concepts using advanced features of Excel, transforming raw data into meaningful models that support strategic business decisions. This training course covers essential topics such as data analysis, optimization, simulation, and forecasting, equipping you with the skills needed for real-world problem solving. This course is ideal for professionals involved in finance, engineering, logistics, data analysis, and other fields where mathematical modeling plays a critical role. It is also suitable for students and career changers seeking to strengthen their professional portfolio with in-demand skills in computer softwares and data analysis tools. Why choose this course on our platform? We offer a flexible online learning environment tailored to busy professionals in Saudi Arabia, UAE, and across the Middle East. Our certified course ensures you gain recognized credentials that support your career growth and open doors to new opportunities. With expert instruction and practical exercises, you will build confidence in applying Excel for complex mathematical modeling tasks. Upon completion, you will receive a professional certificate that validates your expertise in computer softwares and mathematical modeling using Excel. This certification can enhance your CV, boost your employability, and help you stand out in competitive job markets. Take the next step in your professional development with this top-rated training course. Improve your skills, earn a recognized certificate, and accelerate your career growth in the rapidly evolving field of data analysis and mathematical modeling. IIT Roorkee July 2018

**Computer Softwares Category's Courses**

# Course Lesson(61)


Lesson 1 : **EXCELing with Mathematical Modeling Promo**

Lesson 2 : **Lec 02 Units and Dimensions**

Lesson 3 : **Lec 03 Scaling**

Lesson 4 : **Lec 04 How to build mathematical models**

Lesson 5 : **Lec 05 Basics of Excel 1**

Lesson 6 : **Lec 06 Basics of Excel 2**

Lesson 7 : **Lec 07 Basics of Excel 3**

Lesson 8 : **Lec 08 Linear Quadratic Cubic Models**

Lesson 9 : **Lec 09 Linear Stability Analysis I**

Lesson 10 : **Lec 10 Linear Stability Analysis II**

Lesson 11 : **Lec 11 Lyapunov Stability**

Lesson 12 : **Lec 12 Phase Plane Analysis 1**

Lesson 13 : **Lec 13 Phase Plane Analysis 2**

Lesson 14 : **Lec 14 Phase Plane Analysis 3**

Lesson 15 : **Lec 15 Growth Models Continuous model**

Lesson 16 : **Lec 16 Predator Prey models**

Lesson 17 : **Lec 17 Two species competition model**

Lesson 18 : **Lec 18 Arms Race Model**

Lesson 19 : **Lec 19 Combat Model I**

Lesson 20 : **Lec 20 Combat Model II**

Lesson 21 : **Lec 21 Carbon Dating**

Lesson 22 : **Lec 22 Drug Distribution**

Lesson 23 : **Lec 23 Growth and decay in L R circuit**

Lesson 24 : **Lec 24 Rectilinear motion under variable force**

Lesson 25 : **Lec 25 Dynamice of Rowing**

Lesson 26 : **Lec 26 Horizontal oscillations**

Lesson 27 : **Lec 27 Vertical oscillations**

Lesson 28 : **Lec 28 Epidemic model 1**

Lesson 29 : **Lec 29 Epidemic model 2**

Lesson 30 : **Lec 30 Rumor model**

Lesson 31 : **Lec 31 Varying Gravity model**

Lesson 32 : **Lec 32 Tumor model I**

Lesson 33 : **Lec 33 Tumor model II**

Lesson 34 : **Lec 34 Vegetation in a desert model**

Lesson 35 : **Lec 35 Mathematical model of love affairs**

Lesson 36 : **Lec 36 Discrete models Difference Equation I**

Lesson 37 : **Lec 37 Difference Equations II**

Lesson 38 : **Lec 38 Basics of Excel 4**

Lesson 39 : **Lec 39 Stability Analysis I**

Lesson 40 : **Lec 40 Stability Analysis II**

Lesson 41 : **Lec 41 Population Models**

Lesson 42 : **Lec 42 Bank Account Models**

Lesson 43 : **Lec 43 Economic Model Harrod Model**

Lesson 44 : **Lec 44 Lake Pollutant Models**

Lesson 45 : **Lec 45 Mathematical Model of the Dynamics of Alcohol**

Lesson 46 : **Lec 46 Discrete Predator Prey Model**

Lesson 47 : **Lec 47 Forsenic Model**

Lesson 48 : **Lec 48 Drug Delivery Models**

Lesson 49 : **Lec 49 Lanchester s Combat Model**

Lesson 50 : **Lec 50 Two Species Competition Model Discrete**

Lesson 51 : **Lec 51 Infection model**

Lesson 52 : **Lec 52 Smoking Model**

Lesson 53 : **Lec 53 Price and Demand Model**

Lesson 54 : **Lec 54 Paper Towel model Burning Calories Model**

Lesson 55 : **Lec 55 Learning model Kidney function model**

Lesson 56 : **Lec 56 Empirical Modelling**

Lesson 57 : **Lec 57 Estimation of Parameters I**

Lesson 58 : **Lec 58 Estimation of Parameters II**

Lesson 59 : **Lec 59 Estimation of Parameters III**

Lesson 60 : **Lec 60 Simulation Modeling**

Lesson 61 : **Lec 01 Introduction Importance and Limitations**

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