



MANGALMAY INSTITUTE OF MANAGEMENT & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow)

Knowledge Park-II, Greater Noida (U.P.)

22

MANGALMAY
INSTITUTE OF MANAGEMENT AND TECHNOLOGY

RAAC

Add on Certification Program Mathematics for Management

in Collaboration with
Harvard Business Publishing

For	For	
MBA 1st Semester (Foundation Module)	MBA 2nd Semester (Advance Module)	
Resource Person Mr. Brijesh Kumar Assistant Prof. MIMT	Resource Person Dr. Himani Shonik & Mr. Vipul Garg Assistant Prof. MIMT	
~ Date ~ 7th Aug.-16th Aug. 2023	~ Venue ~ MBA Classroom, Block B,	~ Date ~ 27th April -23rd June, 2024

Toll Free : 1800 103 3797 | www.mimt.org
Plot No. 8 & 9, Knowledge Park-II, Greater Noida, Delhi-NCR, India

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Date: 01st August, 2023

NOTICE

Mangalmai Institute of Management & Technology is going to organise an Add-on Certification Program in collaboration with Harvard Business Publishing. This program is designed specifically for MBA 1st Year students and aims to provide a comprehensive introduction to use of Mathematics for Management and practices.

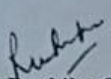
The details of the program are as follows:

Foundation Module:

- Dates: 7th August to 16th August, 2023
- Total Duration: 10 Hours
- Number of Classes: 08
- Venue: MBA Classroom
- Beneficiaries: MBA 1st Year Students (1st Sem)
- Teaching Assistants: Mr. Brijesh Kumar

Advance Module:

- Dates: 27th April to 23rd June, 2024
- Total Duration: 20 Hours
- Number of Classes: 12
- Venue: MBA Classroom
- Beneficiaries: MBA 1st Year Students (IInd Sem)
- Teaching Assistants: Dr. Himani Shonik, Mr. Vipul Garg


Dr. Ruchika Gupta

Director, MIMT

CC to:

IQAC Director
HOD, MIMT
All Faculty members
All Students
Notice Board



SYLLABUS

Certification Program “Mathematics for Management”

Duration: 14Hours

S. No.	Content
1.	Bridge Course Session 1: Concept of Numbers and mathematical operations of different types of numbers. Applicability of Mathematical operations of numbers in Statistics and Optimization.
2.	Bridge Course Session 2: Basic components of Statistics and important steps involve in data and statistics. Method and sources for collecting data. Classification and Tabulation.
3.	Bridge Course Session 3: Concept of measure of central tendency like Mean, Median and Mode for ungroup data and its application in different field of management. Different types of average and its importance in Management.
4.	Bridge Course Session 4: Basic concept of measure of dispersion like Range, Mean deviation, Standard deviation and coefficient of variation for ungroup data and its application in different field of Management. Difference between Measure of central tendency and measure of dispersion.
5.	Bridge Course Session 5: Basic concept of Set theory and its operations which is applicable for Addition and multiplication theorem in Probability.
6.	Bridge Course Session 6: Basic concept of Different types of Events and Probability and its application in Business management. Correlation of simple probability with probability Distribution.
7.	Bridge Course Session 7: Basic concept, notations and types of Matrixes which is applicable in optimization models for management students & its role in linear programming problem and Transportation problem.
8.	Bridge Course Session 8: Students Assessments
9.	Advance Course Session 1: Algebra Variables Function of One Variable



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	<p>Functions of More than One Variable Linear Equations: One Variable The Cartesian Plane Straight Lines Finding Solutions: Two Equations Linear Inequalities: One Variable Linear Inequalities: Two Variables Polynomials and Quadratic Functions Powers and Exponents Power Function Cobb-Douglas Function Order of Operations Entering Formulas and Graphing Functions in Excel Inverse Functions Ratios and Percentages Elasticity of Demand Logarithms Index Numbers</p>
10.	<p>Advance Course Session 2: Calculus Motivation for Differential Calculus Determining the Slope of a Function Slope and Tangent Line Rules for Computing Derivative Second Derivatives, Convex, and Concave Functions Maximizing and Minimizing Functions Inflection Points</p>
11.	<p>Advance Course Session 3: Statistics Summation Notation Using Bar Graphs and Histograms to Summarize Data Measures of Central Tendency Skewness and Measures of Central Tendency Measures of Variability The Rule of Thumb and Outliers Covariance and Correlation</p>
12.	<p>Advance Course Session 4: Probability Experiments, Sample Spaces, and Events Basic Probability Calculations Involving Sample Spaces Mutually Exclusive Events Complementary Events Conditional Probability Independent Event Random Variables</p>



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	Continuous Random Variables Normal Random Variable
13.	Advance Course Session 5: Finance Net Present Value (NPV) Internal Rate of Return (IRR) Payback Criteria Future Value Annuities Perpetuities Growing Perpetuity Compound Interest Basic bond Math CAGR: Compound Annual Growth Rate Option Pricing



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SCHEDULE

Mathematics for Management

S.No.	Date	Day	Time	Hours
1.	07-08-2023	Monday	11:00-12:00	1
2.	08-08-2023	Tuesday	11:00-12:00	1
3.	09-08-2023	Wednesday	11:00-12:00	1
4.	10-08-2023	Thursday	11:00-12:00	1
5.	11-08-2023	Friday	11:00-12:00	1
6.	12-08-2023	Saturday	11:00-12:00	1
7.	14-08-2023	Monday	11:00-12:00	2
8.	16-08-2023	Wednesday	11:00-12:00	2
9.	27-04-2024	Saturday	10:00-12:00	2
10.	28-04-2024	Sunday	10:00-12:00	2
11.	11-05-2024	Saturday	10:00-12:00	2
12.	12-05-2024	Sunday	10:00-12:00	2
13.	25-05-2024	Saturday	10:00-12:00	2
14.	26-05-2024	Sunday	10:00-11:00	1
15.	02-06-2024	Sunday	10:00-12:00	2
16.	08-06-2024	Saturday	10:00-11:00	1
17.	09-06-2024	Sunday	10:00-12:00	2
18.	15-06-2024	Sunday	10:00-11:00	1
19.	16-06-2024	Saturday	12:00-01:00	1
20.	23-06-2024	Sunday	10:00-11:00	2
			Total	30
21.	01-07-2024	Monday	10:00-12:00	2



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	REPORT
Name of Activity	Certification Program “ Mathematics for Management”
Date	27 th April 2024-01 st July 2024 07 th August 2023-16 th August 2023
Venue	Block B, MIMT.
Organised by	Management Department
Participated by	MBA 2 nd Sem students (99 students)
Resource Person	Dr. Himani Shonik & Mr. Vipul Garg
Content	<p>Mangalmay Institute of Management and Technology organized a certification course on “Mathematics for Management”. The content covered in the certification course is given below:</p> <p>For First Session (Bridge Course):</p> <p>Session 1: On First day Mr. Brijesh Kumar began the module with a storytelling session explaining the concept of Numbers and mathematical operations of different types of numbers to the students. He also discusses how these Mathematical operations of numbers are applicable in Statistics and Optimization.</p> <p>Session 2: On Second day Mr. Brijesh Kumar Discuss the module with Basic components of Statistics and important steps involve in data and statistics. He also discusses method and sources for collecting data. He also discusses about classification and Tabulation which is important concept of Business statistics.</p> <p>Session 3: On Third day Mr. Brijesh Kumar Discuss the module with concept of measure of central tendency like Mean, Median and Mode for ungroup data and its application in different field of management. He also discusses different types of average and how this concept is important in Management.</p> <p>Session 4: On fourth day Mr. Brijesh Kumar Discuss the module with Basic concept of measure of dispersion like Range, Mean deviation, Standard deviation and coefficient of variation for ungroup data and</p>



its application in different field of Management. He also discusses difference between Measure of central tendency and measure of dispersion.

Session 5: On Fifth day Mr. Brijesh Kumar Discuss the module with Basic concept of Set theory and its operations which is applicable for Addition and multiplication theorem in Probability. Addition and multiplication play important Role in Business Management.

Session 6: On Six-day Mr. Brijesh Kumar Discuss the module with Basic concept of Different types of Events and Probability and its application in Business management. He also correlates concept of simple probability with probability Distribution.

Session 7: On Seventh day Mr. Brijesh Kumar Discuss the module with Basic concept, notations and types of Matrixes which is applicable in optimization models for management students. Concept of Matrix is also Applicable in linear programming problem and Transportation problem.

Session 8: On Last day Mr. Brijesh Kumar Take Students Assessments through 30 MCQ questions. He also compiles data through Google form.

For Second Session (Advance Course):

Day 1: Algebra and Variables

- Introduction to Algebra, understanding variables and constants.
- Understanding functions, domain, and range.
- Introduction to multivariable functions.
- Solving linear equations.
- Introduction to the Cartesian plane.

Day2: Straight Lines and Linear Inequalities

- Equation of a line, slope-intercept form.
- Solving systems of two linear equations.
- Solving linear inequalities.
- Introduction to polynomials, quadratic functions.

Day3: Powers and Exponents , Cobb-Douglas Function and Order of Operations

- Understanding powers and exponents.
- Introduction to power functions.
- Introduction to Cobb-Douglas production function.



- PEMDAS/BODMAS rules.

Day4: Entering Formulas and Graphing Functions in Excel

- Using Excel for algebraic calculations.

Day5: Inverse Functions, Ratios and Percentages

- Understanding inverse functions.
- Working with ratios and percentages.

Day 6: Elasticity of Demand and Logarithms

- Understanding demand elasticity.
- Introduction to logarithms.

Day7: Index Numbers

- Understanding index numbers.

Day8: Motivation for Differential Calculus

- Introduction to differential calculus.
- Determining the Slope of a Function
- Understanding the tangent line.
- Basic rules for derivatives.
- Understanding second derivatives.

Day9: Maximizing and Minimizing Functions

- Convex, and Concave Functions
- Maximizing and Minimizing Functions
- Identifying inflection points.

Day10: Summation Notation and Using Bar Graphs and Histograms to Summarize Data

- Introduction to summation notation.
- Visual data representation.

Day11: Measures of Central Tendency

- Mean, median, and mode.

Day12: Skewness and Measures of Central Tendency

- Understanding skewness.

Day 13: Measures of Variability

- Range, variance, and standard deviation.



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	<ul style="list-style-type: none"> • Identifying and handling outliers. <p>Day 14: Covariance and Correlation</p> <ul style="list-style-type: none"> • Understanding covariance and correlation. <p>Day 15: Probability: Experiments, Sample Spaces, and Events</p> <ul style="list-style-type: none"> • Basics of probability. • Calculating probabilities. • Understanding mutually exclusive and complementary events. • Conditional probability and independence. <p>Day 16: Random Variables</p> <ul style="list-style-type: none"> • Understanding random variables. • Continuous random variables. <p>Day 17: Net Present Value (NPV)</p> <ul style="list-style-type: none"> • Calculating NPV. • Calculating IRR. <p>Day 18: Payback Criteria</p> <ul style="list-style-type: none"> • Understanding payback period. <p>Day 19: Future Value</p> <ul style="list-style-type: none"> • Calculating future value. • Understanding annuities and perpetuities. <p>Day 20: Growing Perpetuity</p> <ul style="list-style-type: none"> • Understanding growing perpetuity.
Objective	<p>The course aims to equip MBA students with essential skills in mathematics, statistics, and finance, enabling them to solve complex business problems, make data-driven decisions, and perform financial analyses. Students will master algebra, functions, calculus, probability, and key finance principles like NPV and IRR, applying these concepts to real-world business scenarios. .</p>
Outcome of Activity	<p>After completion of this course students able to:</p> <ul style="list-style-type: none"> • Utilize algebraic, calculus, and statistical techniques to analyze and solve various business issues. • Interpret and manipulate data using statistical methods and



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	<p>probability to inform business strategies.</p> <ul style="list-style-type: none">• Apply key financial principles such as NPV, IRR, and annuities to assess investment opportunities and make informed financial decisions.• Use graphical representations of functions to understand and communicate business trends and relationships.
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Attendance Sheet (Scanned copy)



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Name of the Value Added Program
 Faculty Incharge

Mathematics for Managers
 Dr. Himani Shrivastava & Mr. Vipul

Course

MBA

Duration (Date)

21/11/24 to 28/11/24

S.No.	Student's Name	21/11	22/11	23/11	24/11	25/11	26/11	27/11	28/11
1	Abhishek Jaiswal	Present	Present	Present	Present	Present	Present	Present	Present
2	Abhishek Tripathi	Present	Present	Present	Present	Present	Present	Present	Present
3	Abhinav Kumar	Present	Present	Present	Present	Present	Present	Present	Present
4	Ajay Kumar Pandey	Present	Present	Present	Present	Present	Present	Present	Present
5	Akash Saxena	Present	Present	Present	Present	Present	Present	Present	Present
6	Amn Panchal	Present	Present	Present	Present	Present	Present	Present	Present
7	Amn Kumar Dhoni	Present	Present	Present	Present	Present	Present	Present	Present
8	Anil Raj	Present	Present	Present	Present	Present	Present	Present	Present
9	Anil Kumar Jha	Present	Present	Present	Present	Present	Present	Present	Present
10	Amritha K Nair	Present	Present	Present	Present	Present	Present	Present	Present
11	Anita Kumari	Present	Present	Present	Present	Present	Present	Present	Present
12	Anisha Raj	Present	Present	Present	Present	Present	Present	Present	Present
13	Anjali Gupta	Present	Present	Present	Present	Present	Present	Present	Present
14	Anjali Sharma	Present	Present	Present	Present	Present	Present	Present	Present
15	Anjali Tyagi	Present	Present	Present	Present	Present	Present	Present	Present
16	Ankit Kumar	Present	Present	Present	Present	Present	Present	Present	Present
17	Anmol Tyagi	Present	Present	Present	Present	Present	Present	Present	Present
18	Ansh Panwar	Present	Present	Present	Present	Present	Present	Present	Present
19	Anshika Singh	Present	Present	Present	Present	Present	Present	Present	Present
20	Arbaaz Hassan	Present	Present	Present	Present	Present	Present	Present	Present
21	Archana Rajput	Present	Present	Present	Present	Present	Present	Present	Present
22	Arihant Virendra Jain	Present	Present	Present	Present	Present	Present	Present	Present
23	Ashish Kumar Mishra	Present	Present	Present	Present	Present	Present	Present	Present
24	Avakash Kumar	Present	Present	Present	Present	Present	Present	Present	Present
25	Avantika Srivastava	Present	Present	Present	Present	Present	Present	Present	Present
26	Awanti Kumar	Present	Present	Present	Present	Present	Present	Present	Present
27	Ayush Sachan	Present	Present	Present	Present	Present	Present	Present	Present
28	Ayush Dubey	Present	Present	Present	Present	Present	Present	Present	Present



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No.	Student's Name	28/4	28/4	11/5	12/5	28/5	28/5	02/6	06/6	06/6	15/6	16/6	23/6	01/07
29	Ayushi A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
30	Bhaskar Shukla	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
31	Chahat Ansari	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
32	Chandan Kumar	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
33	Chandani Singh	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
34	Deepak Kumar	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
35	Divyansh Agrawal	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
36	Divyanshi Dubey	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
37	Garima Rathore	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
38	Gautam Kumar	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
39	Gayatri G	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
40	Harsh Rai	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
41	Harsh Bhatt	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
42	Harsh Tripathi	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
43	Harsh Bhargava	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
44	Harsha Bharti	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
45	Himanshu khannapuri	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
46	Himanshu Yadav	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
47	Hrishav Anand	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
48	Injnamul Ansari	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
49	Ishita Kumari	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
50	Jayesh Joshi	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
51	Jayesh Dwivedi	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
52	Kaksharan K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
53	Kajal K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
54	Kamini Singh	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
55	Kashish K	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
56	Kirti Tyagi	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
57	Lavanshi Bhardwaj	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
58	Mahesh Parmar	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
59	Mahima Sharma	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
60	Manish Pal	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
61	Mayur Mohan	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
62	Meephna Sharma	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
63	Mohd Mehtab	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
64	Mustafa ahamed	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
65	Nandani kumari	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass



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S.No.	Student's Name	2014	2014	115	115	266	266	026	016	916	1516	1616	2316	0117
66	Nandini Saluja	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
67	Nandre Sujit Ujwal	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
68	Nidhi Kumar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
69	Nikhil Nagar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
70	Nirupam Pardey	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
71	Nitish Kumar Chaubey	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
72	Pankaj Sharma													
73	Pawan Kumar													
74	Pawan Kumar													
75	Payal Verma	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
76	Piyush Ranjan	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
77	Pranjal Singh	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
78	Prashant Kumar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
79	Prince Tomar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
80	Pritika Kumari	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
81	Priya Shishodia	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
82	Priyanka P	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
83	Radhika R	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
84	Ranjana Kumari	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
85	Ravinder Solanki	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
86	Rishabh Nagar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
87	Riya Dhama	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
88	Robin Kumar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
89	Sagar S	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
90	Sajjan chauhal	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
91	Sandeep Sharma	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
92	Sandip Kumar Shah	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
93	Santoshi Mandal	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
94	Satyam giriraj	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
95	Shanu kumar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
96	Shekar Kumar	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
97	Shikha kumari	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
98	Shivangi Sinha	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
99	Shivani Jha	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
100	Shreyansh jaiswal	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
101	Simran Bhardwaj	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
102	Sneha Kashyap	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt

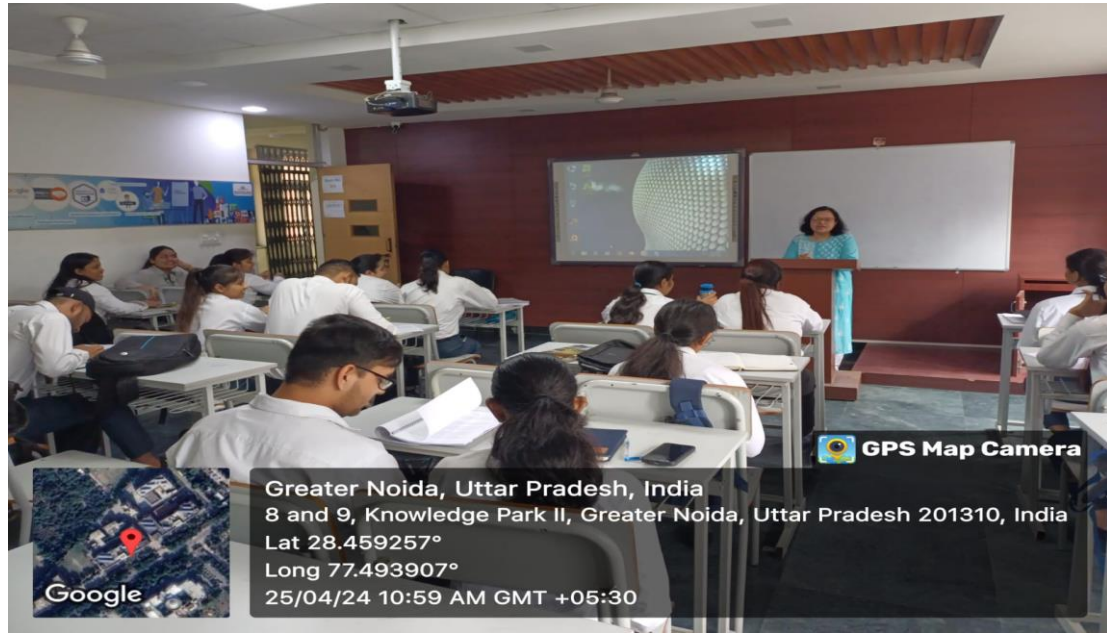


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Pictures of classes



Pic – 1: Dr. Himani Shonikdiscussed basic mathematical concepts



Pic – 2: Dr. Himani Shonikdiscussed use of Excel & Statistics



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Pic – 3: Dr. Himani Shonik define Covariance and Correlation

Certificate



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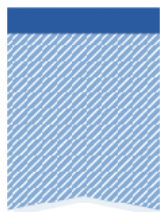
Deepak Kumar

HAS SUCCESSFULLY COMPLETED

Mathematics for Management Online Course

PRESENTED BY Harvard Business Publishing
June 26, 2024

Ellen Desmarais
Senior Vice President, Higher Education
Harvard Business Publishing



Uday Sharma

HAS SUCCESSFULLY COMPLETED

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June 27, 2024

Ellen Desmarais
Senior Vice President, Higher Education
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Resource Person Profile



Dr. Himani Shonik

Ph. D.,MBA(Operation Management),M. Phil. (Statistics),M. Sc.(Statistics)

With teaching experience of more than 9 years in management and IT discipline in Delhi/ NCR, she has done doctoral research in Statistics (Statistical quality control). Her area of interest is Statistics, Operation Research and Research Methodology. She has published and presented research papers in various national and international journals and conferences/ seminars. She has also attended FDPs on research methodology and teaching pedagogy.



Mr. Vipul Garg

M. Com. & Ph. D. (pursuing)

He has 4 years teaching experience in management in Delhi/ NCR. He is doing doctoral research in finance. He has many research articles that he has presented and published in various national and international journals, conferences, and seminars.