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



MANGALMAY INSTITUTE OF MANAGEMENT & TECHNOLOGY (Approved by AICTE, New Delhi & Affiliated to AKTU, Lucknow)

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

Date: 01st August, 2023

NOTICE

Mangalmay 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 Ist 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 Ist Year Students (Ist 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



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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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	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
	Cobb Douglas Function
	Order of Operations
	Entering Formulas and Graphing Functions in Excel
	Inverse Functions
	Ratios and Percentages
	Elasticity of Demand
	Logarithms
	Index Numbers
10	Advance Course Session 2: Calculus
10.	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
11.	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
12.	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



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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	Mangalmay Institute of Management and Technology organized a certification course on " Mathematics for Management ". The content covered in the certification course is given below:
	For First Session (Bridge Course):
	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.
	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 abut classification and Tabulation which is important concept of Business statistics.
	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.
	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



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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.



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MIMT	
	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 Notationand 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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	Identifying and handling outliers.
	Day 14: Covariance and Correlation
	• Understanding covariance and correlation.
	Day 15: Probability: Experiments, Sample Spaces, and Events
	 Basics of probability. Calculating probabilities. Understanding mutually exclusive and complementary events. Conditional probability and independence.
	Day 16: Random Variables
	Understanding random variables.Continuous random variables.
	Day17: Net Present Value (NPV)
	Calculating NPV.Calculating IRR.
	Day 18: Payback Criteria
	• Understanding payback period.
	Day 19: Future Value
	Calculating future value.Understanding annuities and perpetuities.
	Day 20: Growing Perpetuity
	• Understanding growing perpetuity.
Objective	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
Outcome of Activity	 After completion of this course students able to: 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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 probability to inform business strategies. 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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Knowledge Park-II, Greater Noida (U.P.)

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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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.