



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
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PROGRAMME REPORT ON

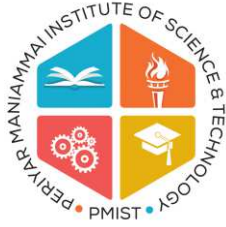
Special Lecture -I on Mathematics for Finance and Insurance-Special Lecture -I on Mathematics for Finance and Insurance

Resource Person

**Dr.S.Prakasam, Assistant Professor, Department of Mathematics,
A.V.V.M Sri Pushpam College (Auto), Poondi, Thanjavur**

Organized by

Mathematics- PMIST



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PROGRAMME REPORT ON

Special Lecture I on Mathematics for Finance and Insurance

Resource Person

Dr. S. Prakasam M.Sc., M.Phil., B.Ed., SET., Ph.D
Assistant Professor of Mathematics
AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur

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Department of Mathematics

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Special Lecture I on Mathematics for Finance and Insurance

10th August 2024

Organized by Department of Mathematics

Objective of the Programme:

The primary objective of the Special Lecture on Mathematics for Finance and Insurance is to provide a comprehensive understanding of the mathematical techniques and models used in financial analysis and insurance. This session aims to:

- ✓ Bridge the gap between theoretical mathematics and its practical applications in the finance and insurance sectors.
- ✓ Equip participants with mathematical tools such as Brownian motion, Geometric Brownian motion and risk analysis to make informed financial decisions.
- ✓ Foster academic and professional development by exposing students and researchers to real-world financial challenges that can be addressed through mathematical principles.



Department of Mathematics

SPECIAL LECTURE - I ON "MATHEMATICS FOR FINANCE AND INSURANCE"

Coordinators:

Dr. R. Arumugam, AP (SG) / Mathematics

Dr. R. Balakumar, AP / Mathematics

DATE & TIME

10th AUGUST 2024
09: 00 am

VENUE

SMART CLASS ROOM
Technology Block - II

RESOURCE PERSON



Dr. S. Prakasam M.Sc., M.Phil., B.Ed., SET., Ph.D.,
Assistant Professor of Mathematics
A.V.V.M. Sri Pushpam College (Autonomous),
Poondi, Thanjavur 613 503

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Department of Mathematics

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Special Lecture I on Mathematics for Finance and Insurance **10th August 2024** *Organized by Department of Mathematics*

PROGRAMME SCHEDULE

10th August 2014 @ 9.00 am

Welcome Address

: **Dr. R. Arumugam**
Assistant Professor (SG)
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

Presidential Address

: **Dr. A. Sasikala**
Associate Professor & Head
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

Lecture begins at 9.20 am

: **Special Lecture I on Mathematics for Finance and Insurance**
Dr. S. Prakasam M.Sc., M.Phil., B.Ed., SET., Ph.D
Assistant Professor of Mathematics
AVVM Sri Pushpam College (Autonomous),
Poondi, Thanjavur

Vote of Thanks

: **PN Kanimalar**
Research scholar
Department of Mathematics
Periyar Maniammai Institute of Science &
Technology, Vallam, Thanjavur

03_Programme Schedule

Special Lecture I on Mathematics for Finance and Insurance
10th August 2024
Organized by Department of Mathematics

Attendance Report

Number of Students (Male)	:	Nil
Number of Students (Female)	:	12
Total	:	12

Special Lecture I on Mathematics for Finance and Insurance
10th August 2024
Organized by Department of Mathematics

List of Participants

DEPARTMENT OF MATHEMATICS
 Periyar Nagar, Vallam Thanjavur - 613 403, Tamil Nadu, India
 Phone: +91 - 4362 - 264600 Fax: +91- 4362 - 264660
 Email Web: www.pmu.edu




Special Lecture - I on "Mathematics for Finance and Insurance"

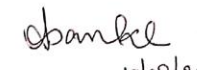
Date: 10th August 2024, Time: 09.00 am

Venue: Smart Class Room, Technology Block – II

Attendance Report

Sl No	Reg. No	Name	Signature
1	123011359072	BHAVADHARANI M	M. Bhavani
2	123011359073	KEERTHANA M	M. Keethana
3	123011359074	KEERTHANA M	M. Keethana
4	123011359075	SYAMALADEVI U	S. Yamaladevi
5	123011359077	ASMA A	A. Asma
6	123011359078	KIRUTHIKADEVI S	S. Kiruthikadevi
7	123011359079	SUBASHINI V	V. Subashini
8	123011359080	SUBHASRI M	M. Subhasri
9	123011359081	A YESHA UMMA HANI L	L. Ayesha Umma
10	123011359082	DEVADHARINI K	K. Devadharini
11	123011359083	DIVYA MANOHARI P	P. Divya Manohari
12	123011359084	SOPIHA N	N. Sopiha


 10.08.24
 (Dr. B. ARUMUGAM)


 10/08/24
 (HOD/math)
 Professor & Head
 Department of Mathematics
 Periyar Maniammai
 Institute of Science & Technology
 Periyar Nagar, Vallam, Thanjavur-613 403.

Special Lecture I on Mathematics for Finance and Insurance
Organized by Department of Mathematics

Report of the Programme

Date: 10th August 2024

Venue: Smart Class room – TBI II

The Department of Mathematics successfully organized the first special lecture on Mathematics for Finance and Insurance on the 10th of August, 2024. The session was inaugurated with a welcome address by Dr. R. Arumugam, followed by a presidential address from Dr. A. Sasikala. The guest speaker, Dr. S. Prakasam, delivered a compelling and insightful presentation that explored the critical mathematical frameworks of Brownian motion and geometric Brownian motion, with particular attention to their applications in financial markets and risk analysis.

Dr. Prakasam explained how Brownian motion, a fundamental stochastic process, models the erratic behavior of stock prices. The session delved into the concept of geometric Brownian motion, demonstrating how it extends Brownian motion by incorporating exponential growth, making it a core tool in predicting stock prices. Additionally, the session highlighted various risk analysis techniques used in the insurance industry and illustrated how these models are used to hedge against financial uncertainties.

The program concluded with a vote of thanks delivered by PN Kanimalar, marking a successful event that fostered enhanced understanding of complex financial models and their real-world applications in finance and insurance.

Key Points:

- Brownian Motion in Finance
- Geometric Brownian Motion (GBM)
- Risk Analysis in Financial Markets
- Applications in Insurance
- Real-World Implications and Case Studies

06_Programme Report



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CERTIFICATE OF APPRECIATION

This is to certify that

{Name}

Institute Name

has participated in the "Special Lecture I on Mathematics for Finance and Insurance" organized by Department of Mathematics, Periyar Maniammai Institute of Science & Technology, Deemed to be University, Vallam, Thanjavur on 10.08.2024

A handwritten signature in blue ink, appearing to read 'Sasikala'.

Dr. A. Sasikala
Head- Mathematics

A handwritten signature in blue ink, appearing to read 'P. Vijayalakshmi'.

Dr. P. Vijayalakshmi
Dean - FHSM

Special Lecture I on Mathematics for Finance and Insurance
10th August 2024
Organized by Department of Mathematics



Fig.1. Welcome Address by Dr. R. Arumugam



Fig. 2. Delivering special by lecture by Dr. S. Prakasam

Special Lecture I on Mathematics for Finance and Insurance
10th August 2024
Organized by Department of Mathematics

Outcomes of the programme:

By the end of the awareness program, students should be able to:

- Understand the role of mathematics in finance and insurance, particularly in areas such as risk management, investment analysis, and actuarial science.
- Gain practical insights into applying mathematical models and techniques like probability theory, statistical methods, and financial mathematics to solve problems in the finance and insurance sectors.
- Develop the ability to analyze complex financial problems and propose mathematically sound solutions.
- Be more aware of career opportunities in finance and insurance for those with strong mathematical backgrounds.
- Engage in further research on emerging topics at the intersection of mathematics, finance, and insurance.



Dr. R. Balakumar



Dr. R. Arumugam



Department of Mathematics
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Institute of Science & Technology
Periyar Nagar, Vallam, Thanjavur-613 403.