REPORT ON GUEST LECTURE

INVITATION

D.K.M COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

DEPARTMENT OF MATHEMATICS

Organizes a

GUEST LECTURE

On

"MATHEMATICS FOR DECISION MAKING, OPTIMIZATION AND SCORING IN INDUSTRIES"

RESOURCE PERSON

Dr. MD AKSAM V K

Principal Data Scientist, Securin

IIT Madras Tech Park, Chennai

Date: 09.08.2024   **Time: 9.30 A.M**   **Venue: Kaveri Hall**

Chief Patrons	Patron	Convenors	Organizing Committee
Er. D. Maninathan	Dr. R. Banumathy	Mrs. G. Vinu Priya	Dr. N. Nithyapriya
Secretary	Principal	HOD, Maths	Assistant Professor
Dr. T. Sivakumar		Dr. M. Kasthuri	Dr. M. Devi
President		Assistant Professor	Assistant Professor

All are cordially invited

Management, Principal, Staff and Students, DKMC

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
DEPARTMENT OF MATHEMATICS

Program Objectives:

- To identify different types of optimization problems and their applications in various fields.
- To apply decision-making analysis techniques to solve real-world problems.
- To utilize scoring techniques to prioritize tasks, allocate resources and streamline processes.

Program Outcomes:

- Participants learned about the mathematical and computational optimization methods to improve efficiency and resource allocation.
- They got the idea about the usage of data-driven insights to make strategic, operational and tactical business decisions.

REPORT

The Department of Mathematics organized a guest lecture titled "Mathematics for Decision Making, Optimization, and Scoring in Industries" on 09.08.2024. The event commenced with the Thamizhthai Vazhthu at 10:00 a.m. in Kaveri Hall. Mrs. G. Vinu Priya, Assistant Professor and Head, Department of Mathematics welcomed the gathering. Dr. R. Banumathy, Principal of D.K.M. College for Women, presided over the function and delivered the presidential address. Dr. M. Devi, Assistant Professor introduced the resource person for the session.

Mathematics plays a crucial role in decision-making processes across various industries. From resource allocation and risk management to optimization and scoring, mathematical models and techniques offer a systematic and objective approach to analysing complex problems, predicting outcomes, and making informed decisions.

The resource person for the session was Dr. MD Aksam V K, Principal Data Scientist at Securin, IIT Madras Tech Park, Chennai. He addressed the students on the topic "Mathematics for Decision Making, Optimization, and Scoring in Industries". He explained the application of mathematics in decision theory, probability, and statistics. He highlighted how industries such as logistics, production, and finance use linear programming for

optimizing resource allocation, minimizing costs, and maximizing profits. Additionally, he discussed converting real-world problems into Mathematical models, methods for solving them, and how students with a mathematical background can pursue a career as a data scientist.

Ms. Sowbarnika of III B.Sc. Mathematics acted as the Master of Ceremony. Dr. N. Nithyapriya, Assistant Professor of Mathematics, proposed the vote of thanks. Around 123 students from B.Sc. Mathematics participated in the guest lecture. The meeting concluded with the National Anthem.

PHOTOGRAPHIC EVIDENCE

Welcome address given by Dr. R. Banumathy, Principal, D.K.M College for Women (Autonomous), Vellore-1

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1

DEPARTMENT OF MATHEMATICS

Special Talk given by Dr. MD Aksam V. K, Principal Data Scientist, IIT Securin, Chennai