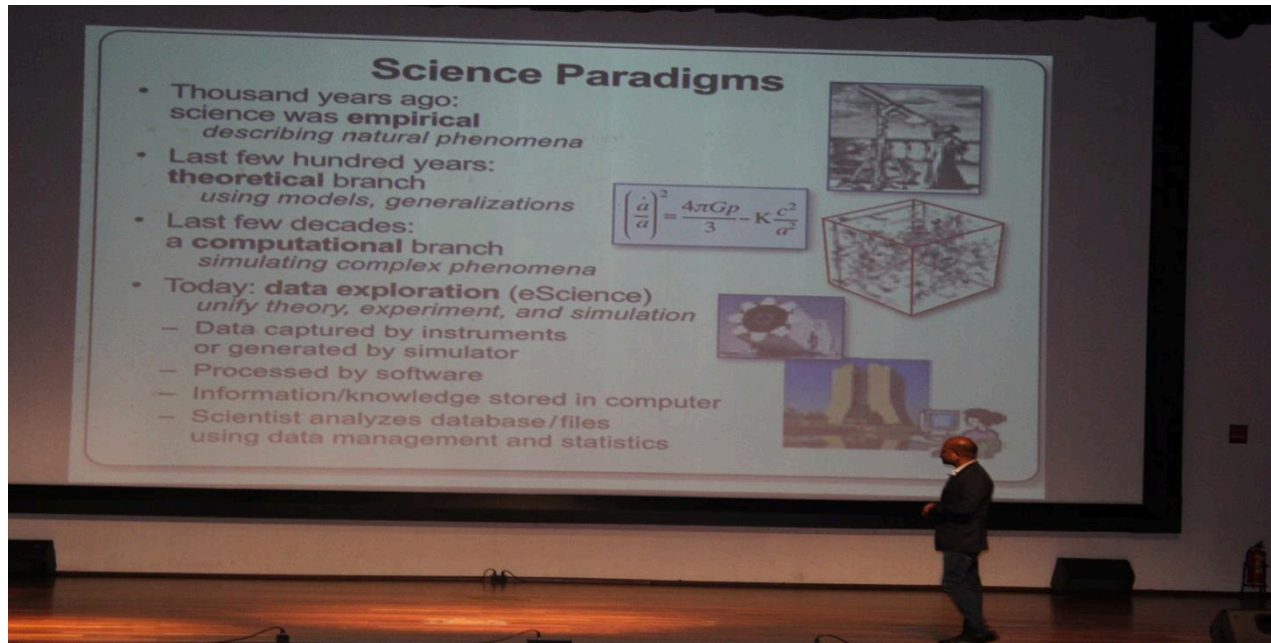


GUEST LECTURE on 'Applications of Numerical methods in Engineering'

A Guest lecture on 'Applications of Numerical methods in Engineering' was organized by the Department of Mathematics, MVJCE on 29th June 2024. The lecture was organized at M V Jayaraman Auditorium for the First-year students.

The Guest speaker for this lecture was Dr. G N Mohapatra, Principal scientist, CSIR 4Pi, Bangalore. All the first-year students and faculty members attended the session. At this guest lecture, 700 First-year students from various sections of Physics and Chemistry cycle were present. The event started at 10.35 am.



A Guest lecture on numerical methods by the speaker Dr. G N Mohapatra

The session started with an invocation song by first year students from the Dhvani club of MVJCE. Gowri and Ananya from A section, welcomed the audience and the Guest Speaker. They highlighted the importance of learning the applications of Numerical methods. He highlighted the fact that Numerical methods is one of the most important part of Engineering.



Dignitaries during the guest lecture. (Dr. G N Mohapatra, Prof. Niranjana L) (From left to right)

Prof. Niranjana L, HOD, Department of Mathematics, introduced the Chief Guest to the audience.



Dr. G N Mohapatra, Principal scientist, CSIR 4Pi, Bangalore, giving a lecture on **'Applications of Numerical methods in Engineering'** at MVJCE.

The Chief Guest, Dr. G N Mohapatra gave some applications (Standard Examples) of numerical methods which models the classical problems like: populations growth, weather forecasting, 3D plotting using calculus etc. He gave brief explanation on usage of numerical methods in modelling the weather forecast system. He gave a brief introduction to model a problem using numerical methods using various software. Through the examples, the students could understand the importance of correct modelling, and why they need to study numerical methods in modern Mathematics. He also highlighted the importance of numerical methods in Engineering and its scope in the future. Further, they realized that obtaining the solution is not enough to understand the problem and provide right answers to the applications. In addition to the above concepts, the speaker also introduced the students to the numerical methods used in calculus. He gave a brief explanation on the identification of roots of higher order polynomials, which would result in the solution of various higher order differential equation. The speaker explained the importance of various numerical methods and its application.



Students during the Guest Lecture.

After the presentation, a Q&A session was conducted where the Guest Speaker addressed the queries of the attendees.

The session concluded with vote of thanks by the first year student Ashmitha from I section to MVJ Management, Principal, Vice Principal and COE of MVJCE for having given this opportunity to conduct the Guest lecture. A special mention to ITHelpDesk and team for their technical support during the session.

Outcome of the Event

The guest lecture enabled the students to have more knowledge about Numerical methods. This would lead an individual to gain interest in learning the subject more accurately. This also encourages an individual to explore and understand the need of numerical methods in their respective Engineering branch.

Ms. Poojashree R
Event Co-Ordinator,
Assistant Professor, Mathematics
MVJCE.