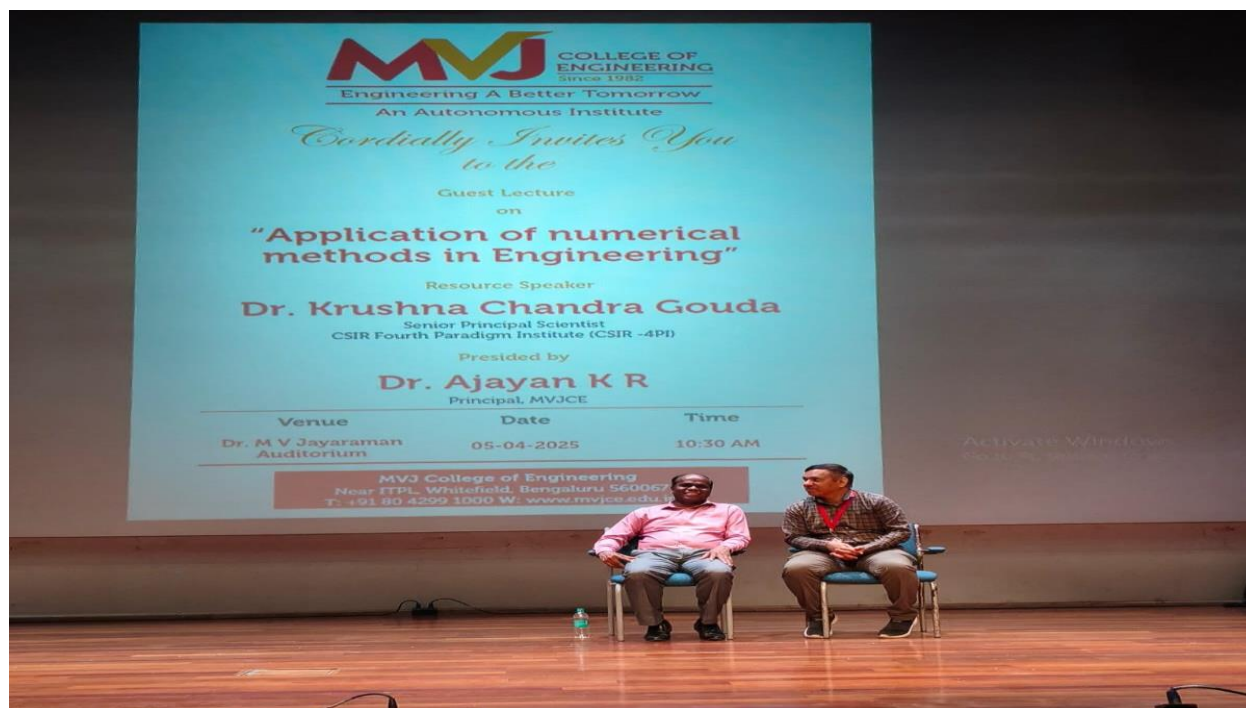


GUEST LECTURE on 'Applications of Numerical Methods in Engineering'

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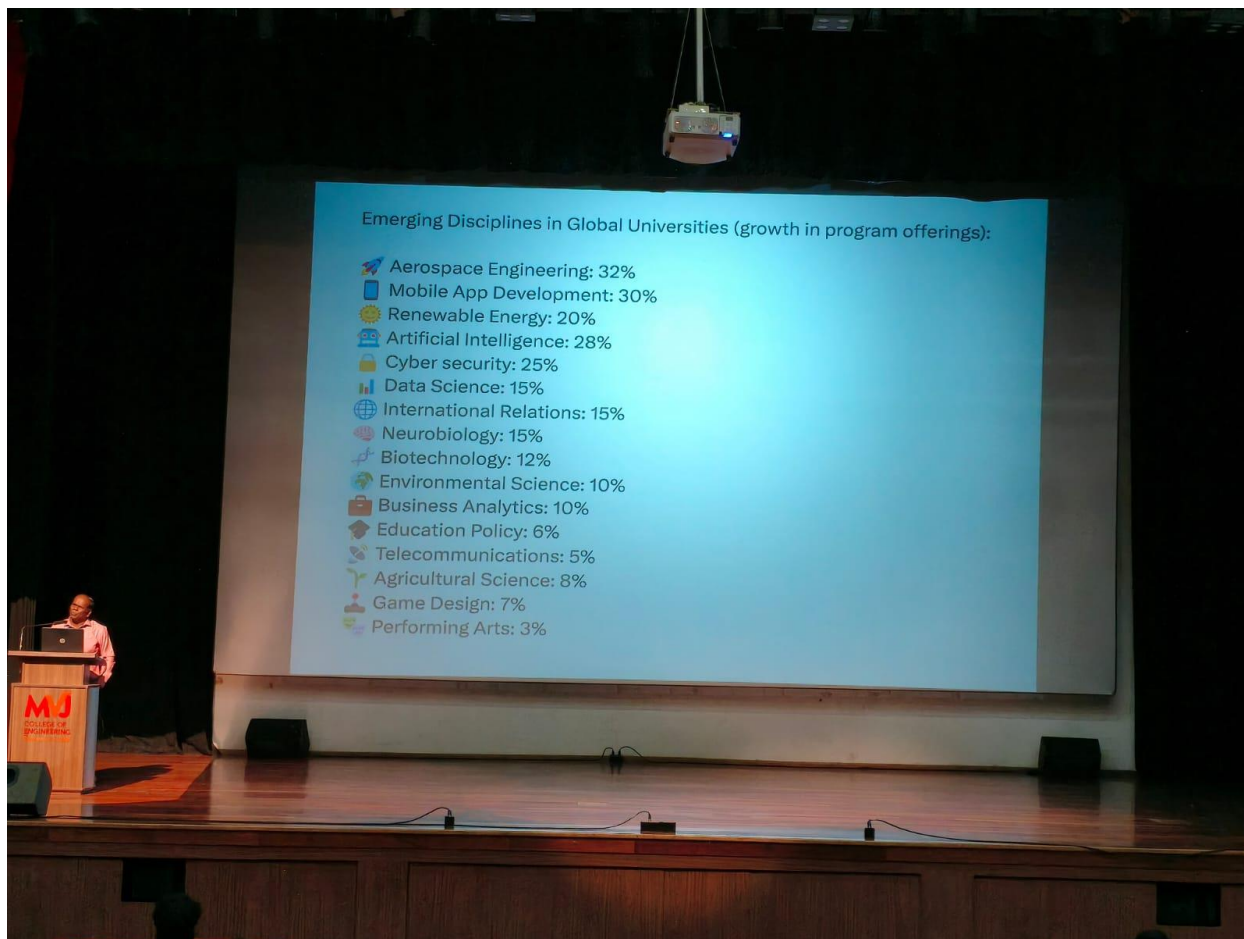
A Guest lecture on 'Applications of Numerical methods in Engineering' was organized by the Department of Mathematics, MVJCE on 5th April 2025. The lecture was organized at M V Jayaraman Auditorium for the First-year students.

The Guest speaker for this lecture was Dr. Krushna Chandra Gouda, Senior 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.



A Guest lecture on 'Applications to Numerical methods in Engineering' was conducted at M V Jayaraman Auditorium, MVJCE on 5th April 2025.

Ms. Poojashree R, Assistant professor, Department of Mathematics, welcomed the audience and the Guest Speaker. Subsequently, Dr. Pradeep C, HOD, Department of Mathematics, introduced the Chief Guest to the audience.



The Chief Guest, Dr. Krushna Chandra Gouda provided some applications (Standard Examples)

Dr. Krushna Chandra during the guest lecture.

The Chief Guest, Dr. Krushna Chandra Gouda provided some applications (Standard Examples) of numerical methods which model the classical problems like populations growth, weather forecasting, 3D plotting using calculus, traffic management and so on. He put forward a brief explanation on usage of numerical methods in modelling the weather forecast system, he also provided 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. 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 briefly explained the identification of

roots of higher order polynomials, which would result in the solution of various higher order differential equations. The speaker explained the importance of various numerical methods and their application. He shed light on a number of real life applications and their direct relation with engineering



Students and faculties during the guest lecture.

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



Dr. Krishna Chandra and Dr. Pradeep during the guest lecture.

The session concluded with a vote of thanks by the first-year student Ramya from Q section to MVJ Management, Principal, Deans and COE of MVJCE for having provided the opportunity to conduct the Guest lecture. A special mention to ITHelpDesk and the 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.