

# **Invited Lecture**

**On**

**PI and Primes**

**By**

**Prof. Saikat Mukherjee**

**Department of Mathematics,**

**NIT, Meghalaya**

**Report**

14<sup>th</sup> March 2020

The Department of Mathematics, St. Edmund's College successfully organized an invited lecture on the fascinating topic of "Pi and Primes" delivered by Prof. Saikat Mukherjee, the Head of the Department of Mathematics, NIT Meghalaya. This event was held to enrich the knowledge of our students and to provide them with an opportunity to engage with a distinguished academic in the field of mathematics. The audience comprised of mathematics majors and students from the physical science departments, reflecting the interdisciplinary appeal of the subject matter.

The lecture commenced at 10:00 a.m. with a warm welcome by the Head of the Mathematics Department, Prof. Dipankar Deb, who introduced Professor Mukherjee and highlighted his significant contributions to the field of mathematics.

Professor Mukherjee began the lecture by delving into the history and importance of the number pi ( $\pi$ ), tracing its origins from ancient civilizations to its current applications in various fields of science and engineering. He explained the irrational nature of pi and discussed its appearance in different mathematical contexts, including geometry, trigonometry, and calculus.

The lecture then transitioned to the intriguing world of prime numbers. Professor Mukherjee covered fundamental concepts, such as the definition and properties of primes, the Sieve of Eratosthenes, and the role of primes in number theory. He captivated the audience with insights into the distribution of prime numbers and famous conjectures, including the Riemann Hypothesis and the Goldbach Conjecture.

Following the lecture, there was a lively interactive session where students and faculty members had the opportunity to ask questions and discuss topics in more depth. The questions ranged from the practical applications of pi in modern technology to the unsolved mysteries surrounding prime numbers. Professor Mukherjee provided thorough and insightful answers, encouraging students to think critically and explore these topics further in their studies.

The program concluded with a vote of thanks delivered by Manbhalang Chyne, a senior faculty of the Department, who expressed gratitude to Professor Mukherjee for his enlightening lecture and to the attendees for their active participation. The event ended on a high note with light refreshments, allowing students and faculty to mingle and discuss the day's topics in a more informal setting.

The feedback from participants was overwhelmingly positive. Students appreciated the clarity and depth of the lecture, and many expressed a renewed interest in pursuing advanced topics in mathematics.

The Department of Mathematics would like to thank Professor Saikat Mukherjee for his valuable time and expertise. We also extend our gratitude to the college management, faculty members, and students whose efforts made this event a resounding success.

Encouraged by the success of this event, the Department of Mathematics plans to organize more such lectures and workshops in the future to continue fostering a vibrant academic environment for our students.

# Photo Gallery

