

GUEST LECTURE ON “POLYMER AND COMPOSITE MATERIALS IN DAILY LIFE”

Department of Chemistry, MVJCE, organized a Guest Lecture on 28-05.2024 for First semester Chemistry cycle students, at Dr. M V Jayaraman Auditorium at 10:30 AM. The lecture started with an invocation song by Vibha and team from ‘D’ section, followed by introduction of the guest by Ms. Divya, student from ‘F’ section.

HOD of Computer Science and Engineering honoured the Guest with a bouquet and spoke about the importance of “Polymers in our daily life”.

Date of the Event	28.05.2024
Title of the Event	Polymer and composite materials in daily life
Guest Speaker	Dr. MuthuLakshmi R T S
Organized by	Chemistry Department
Name of Department Event Coordinators	Dr. Swetha Madamala, Assistant Professor Dr. Budigi Lokesh, Assistant Professor

The guest lecture on "Polymer and Composite Materials in Daily Life" was organized to shed light on the ubiquitous presence and significance of polymer and composite materials in our everyday lives. The lecture aimed to provide insights into the properties, applications, and future prospects of these materials.

The guest speaker for the lecture was Dr. Muthulakshmi RTS, Professor in Chemistry, Azim Premji University, Bengaluru, a distinguished expert in the field of materials science with extensive research and practical experience in polymer and composite materials. Dr. Muthulakshmi RTS has authored more than 20 research publications and has contributed significantly to the advancement of materials science.

Polymers are large molecules composed of repeating structural units called monomers. They exhibit a wide range of properties depending on their chemical composition and structure.

Examples of polymers include plastics, rubbers, and fibers, all of which find extensive applications in various industries and everyday products.

Plastics are used in packaging materials, consumer goods, automotive components, and electronics. Rubbers are employed in tires, seals, gaskets, and various industrial applications. Fibers such as polyester, nylon, and acrylics are used in clothing, carpets, and textiles.

Composite materials are engineered materials composed of two or more constituent materials with significantly different physical or chemical properties. Examples include fiberglass, carbon fiber reinforced polymers (CFRP), and reinforced concrete. Composite materials offer superior strength, durability, and lightweight properties, making them ideal for applications in aerospace, automotive, construction, and sports equipment.

Impact of polymers and composites on our daily life: Polymer and composite materials have revolutionized various aspects of daily life, from the products we use to the infrastructure that surrounds us. They contribute to the lightweighting of vehicles, improving fuel efficiency and reducing emissions. They enhance the performance and durability of consumer electronics, making them more portable and reliable. They play a crucial role in sustainable packaging solutions, reducing environmental impact and promoting recycling initiatives.

The lecture was followed by an interactive session where attendees had the opportunity to ask questions and engage in discussions with the speaker. Topics ranged from the challenges of recycling polymers to the latest advancements in composite materials research.

The guest lecture on "Polymer and Composite Materials in Daily Life" provided valuable insights into the versatile nature and wide-ranging applications of these materials. Attendees gained a deeper understanding of how polymers and composites shape the world around us and contribute to technological innovation and sustainability efforts.

Overall, the guest lecture was both informative and engaging, prompting thought-provoking discussions among attendees and inspiring further exploration into the fascinating world of polymer and composite materials.



Photo 1: Dr. Santhosh, HOD Computer Science and Engineering, presenting flower bouquet to Guest speaker Dr. Muthulakshmi RTS, Professor in Chemistry, Azim Premji University, Bengaluru

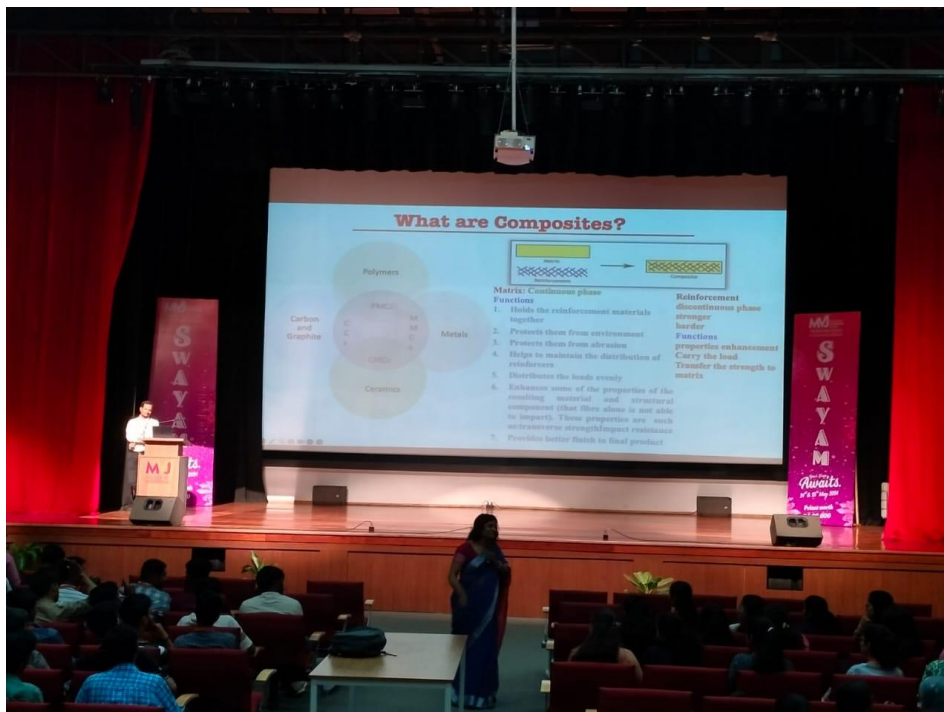




Image 2 and 3 : Guest speaker Dr. Muthulakshmi RTS, Professor in Chemistry, Azim Premji University, Bengaluru giving a talk on the topic “Polymer and Composite materials in daily life”.