

Guest Lecture “Basics of 3D printing (Additive Manufacturing Technology)”

The Department of Chemistry, MVJCE has organized a Guest lecture on 14.12.2024 for the first semester students of Chemistry cycle held at Dr. M.V Jayaraman Auditorium at 10:40 A.M.

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| Date of the Event | 14.12.2024 |
| Title of the Event | Basics of 3D printing (Additive Manufacturing Technology) |
| Guest Speaker | Joint Director DRDO ,Bangalore |
| Organized by (Department name) | Chemistry Department |
| Name of Department event coordinators | Dr.Preethi.G (Assistant Professor and HOD) Mrs. Swati Lal (Assistant Professor) |

Dr.T.Ram Prabhu presented a guest lecture on “Basics of 3D printing (Additive Manufacturing Technology)” on 14th December 2024 at Dr. M.V Jayaraman Auditorium. In the programme about 480 students participated. The lecture was focused on introducing first year students with the concept of “Basics of 3D printing (Additive Manufacturing Technology)”.



Figure 1: On the dais from the left: Dr.Preethi.G (HOD, Department of Chemistry) welcoming Dr. T.Ram Prabhu (Guest speaker, Joint Director, DRDO, Bengaluru)

The lecture gave insights into how the technology has transformed industries, ranging from manufacturing to healthcare, aerospace, automotive, and even consumer goods. It has enabled the creation of extraordinarily complex and customized objects that would be impossible or cost-prohibitive using conventional methods. The method has the following steps: Design Creation, Slicing, Printing, Post-Processing. Some basic applications of 3D printing Prototyping and Product Development, Manufacturing and Production, Healthcare, Architecture and Construction, Aerospace and Automotive, Fashion and Jewelry, Art, and Culture



Figure 2: On the dais: Dr.T. Ram Prabhu ,Joint Director, DRDO addressing the students

The versatility of this technology allows it to be used across a broad range of applications, from industrial manufacturing to personalized consumer products, healthcare, and even food. With ongoing advancements, the potential for new applications is vast. The students found the session interactive and thoughtful, informative, and engaging. It provided a comprehensive overview of 3D printing and its various applications.

