DEPARTMENT OF MECHANICAL ENGINEERING
RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT
BENGALURU - 560 076

"3D PRINTING MACHINE"

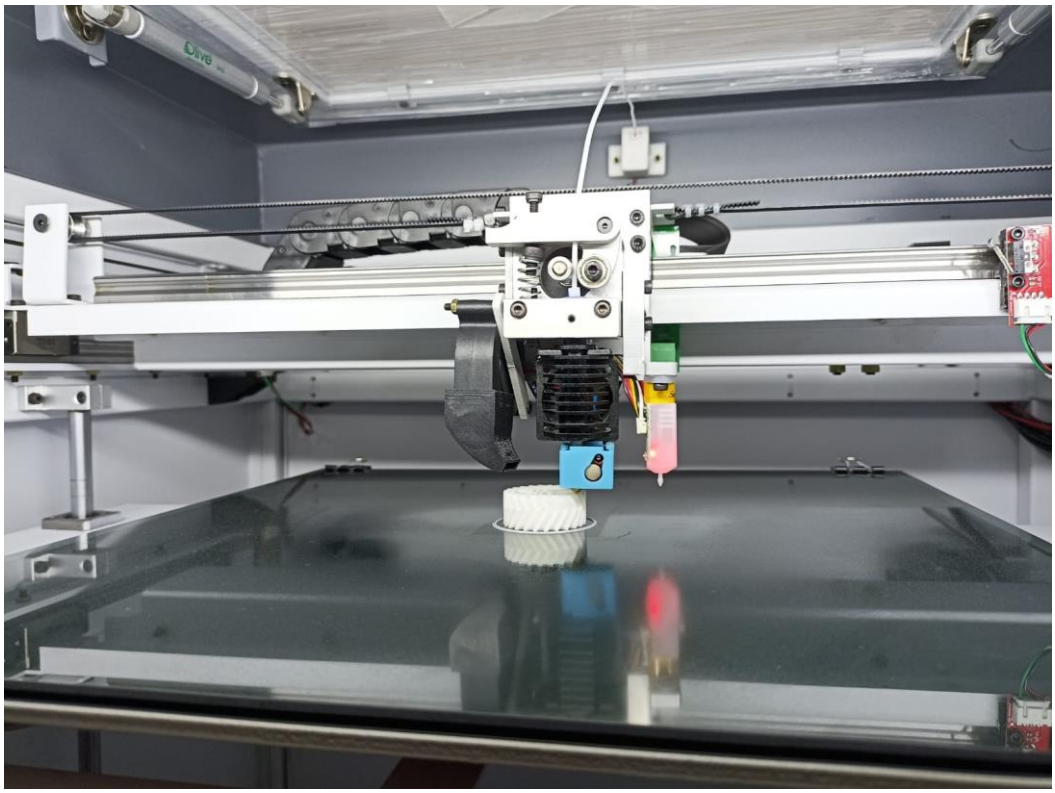
The Department of Mechanical Engineering has organized a demonstration and software training of newly purchased **"3D Printing Machine"** on 11.11.2023 (Saturday) for faculties and non-teaching staffs of Mechanical Engineering in Second Floor Lecture Hall (L2-11), RVITM. The trainer from **LENIVA CAD Solution,** Bengaluru, was conducted session at 10.30 am. The speaker spoke about the importance of 3D printing with related PPT images and videos followed by software training and demonstration of printing. At the end of the program, photograph of the training and feed-back was taken and everyone had given excellent feedback about the training. Finally, the session was held at 3.00 pm in second floor R&D lab.

In this hands-on training session, participants were explored into the interesting world of 3D printing machines and software, gaining a comprehensive understanding of the technology and its practical applications. The session was commenced with an exploration of various types of 3D printers, such as Fused Deposition Modeling (FDM), Stereolithography (SLA), and Selective Laser Sintering (SLS), elucidating the essential components that make up these cutting-edge devices. Following this, participants will navigate the realm of 3D printing software, receiving an introduction to popular tools like CAD, sketch, solid works and Fusion 360. Through step-by-step demonstrations, attendees were learned to design a simple 3D model, model slicing and import existing ones. The training was then transition into a hands-on session, allowing participants to actively engage with 3D printing software, troubleshooting common issues, and honing their design skills. Subsequently, participants were research into the operation of 3D printing machines, mastering tasks such as loading filament, preparing the print bed, and initiating print jobs. The session was also cover advanced features and techniques, providing insights into dual extrusion,

variable layer height, and optimal print settings for specific projects. Through real-world case studies and a dynamic Q&A session, participants gained practical knowledge and confidence in utilizing 3D printing machines and software for diverse applications, from prototyping to industrial projects.

Trainer from LENIVA CAD Solution

Audience Photo during session



3D Printing-Demonstration