



Government Polytechnic for Girls
Department of Biomedical Engineering
Academic Year 2024-25

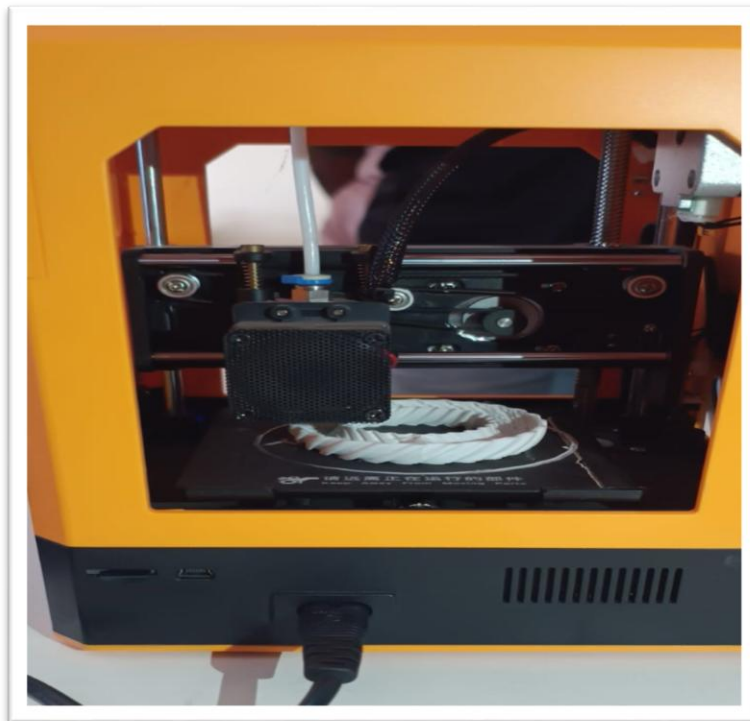
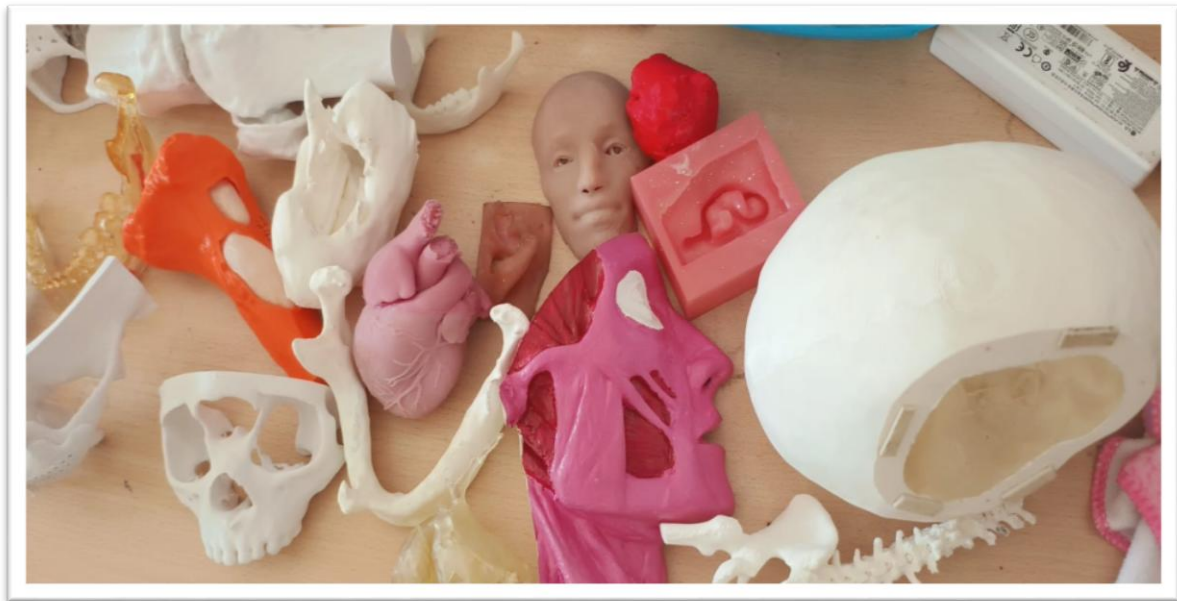
<u>Particulars</u>	<u>Details</u>
Name of Institute	Government Polytechnic for Girls, Ahmedabad
Name of Event	Expert talk on “3D Printing and its application”
Types of Events	Expert Talk
Start date of Event	18/02/2025
Time	11:30 AM onwards
Name of Expert	Mr. Chirag Vyas from Lak techne India private limited
Nature of Participation in Event	Students only
Number of Participants in Event	95
Venue	New building room no 106
Mode of advertisement of event	Notice Board, Students Group
Description of Events	<p>Expert talk by Chirag Vyas - 3D Surgical Segmentation, Preoperative surgery Planning, Patient Specific Implants, 3D Model, R & D / #CSR Consultant / Business Development from “Lak techne India private limited”.</p> <p>The intent of the session was to provide the information about development and delivery of patient-specific, advanced, and customized 3D healthcare products and services, such as surgical guides, anatomy Model segmentation and metal implants.</p> <p>The students gain the knowledge on:</p> <ul style="list-style-type: none">➤ Surgical planning -3D printing and surgical planning software can help doctors create customized models of a patient's anatomy.➤ Bioprinting-3D bio printing is a process that uses living cells and biomaterials to create tissues and organs.➤ Anatomical models 3D printed anatomical models can be used to improve patient education and communication. <p>Students felt that all the topics covered were very much informative. The students got many technical inputs and motivation regarding 3d printing as the upcoming technology.</p>

Learning Outcomes:

- To understand the basics of 3D printing and its applications.
- Operate the hardware of 3D printer

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- The students will understand the significance of 3D printed models which provide opportunity for increased comprehension of anatomical and pathological structures.
- 3D printing allows architects to design and create models that are intricate and complex.
- 3D printers can create entire buildings, including houses and offices.



Above are the images of 3D printer and few prototypes of anatomical models.





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