

Guest Lecture on Polymers: Applications in Day-to-day life

DATE: 19/03/2021

**Event
Coordinator**

**Dr. Bhagyashree
Chari**

Time & Place:

19/03/2021

**(4:00 to 5:00
pm)**

Zoom

Department:

**Applied
Science**

&

Humanities

**No of
participants:**

130

The Department of Applied Science and Humanities had arranged for Guest lecture for students of FE (All branches).

The resource person was *Dr Preeti Zade* from Applied Sciences and Humanities Department, *Terna Engineering college*, Navi Mumbai.

No of students who attended the lecture were 130.

Topic of the session was “*Polymer: Applications in Day – to – Day life*”

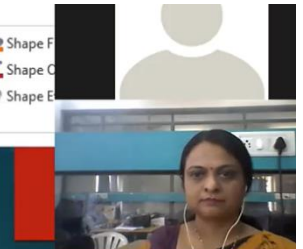
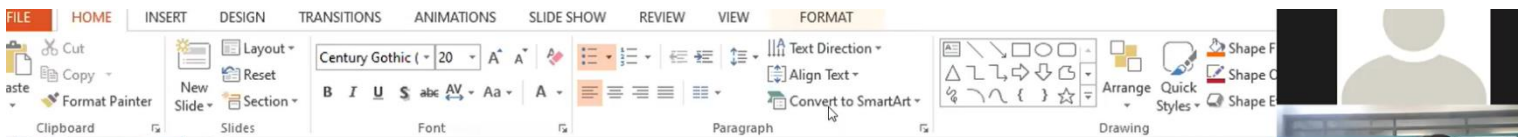
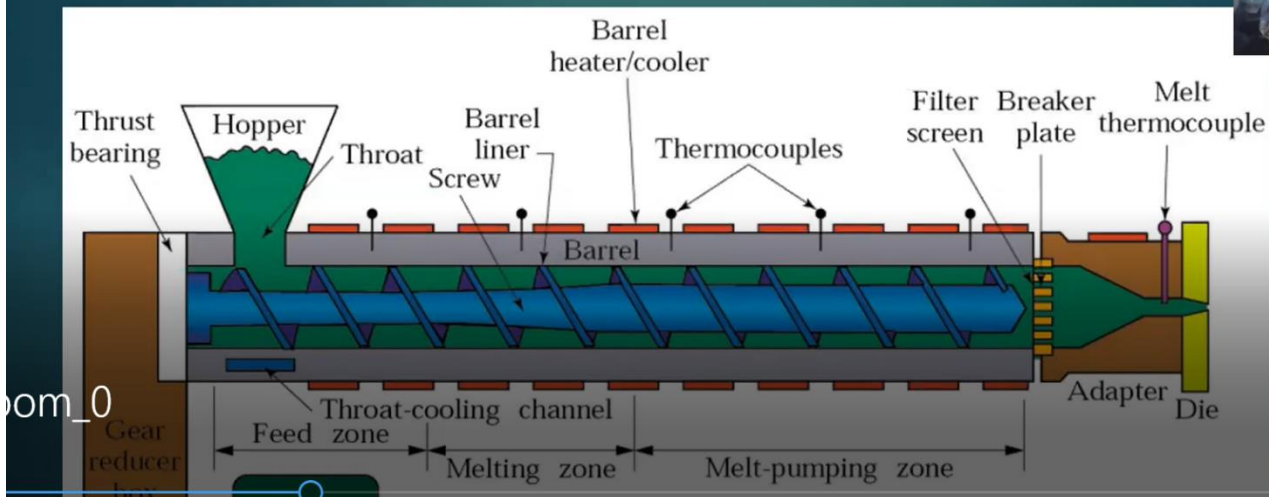
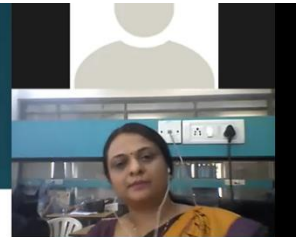
During the session, animated video was displayed by the professor, which was so splendid to watch and yet very informative. Students were excited to know that polymers find application in *Medical field* such as manufacturing Syringes, Knee treatment gel, Artificial Heart valves, as well as in *Engineering field* including Construction technology, viz, making use of Green composite polymers and in Robotics, Computer parts, Video games accessories, etc. The professor emphasized on important questions related to *Polymer Manufacturing Techniques* being asked in the University examination. Students were satisfied with the contents of the presentation and they actively participated in the *Doubt Solving session* conducted in the last 15 minutes.

A *Feedback* and *Quiz* were conducted for the students based on the session using google form at the end of the session.

The session was very helpful to the students who will be appearing for FE examination conducted by MU in April – 2021.

Fabrication of plastic

1. Extrusion Moulding



2. Injection Moulding

- ▶ Similar to hot-chamber die casting of metals
- ▶ Pellets, granules, or powder are fed into heated cylinder, then forced into die chamber by hydraulic plunger or rotating screw system
- ▶ Pressures from 70-200 MPa (10-30 Kpsi)
- ▶ Cool moulds for thermoplastics. Heated moulds for thermosets
- ▶ Complex shapes and good dimensional accuracy
- ▶ Using metallic inserts, multiple materials/colours, and printed films can eliminate post processing or assembly operations
- ▶ <https://youtu.be/QgJLrwDPxE>



Dr. Chari
20-3-2021

Dr. Bhagyashree Chari
Asst Prof, AS&H Dept.

Dr. Madhavi Parimi
HoD- AS&H Dept.