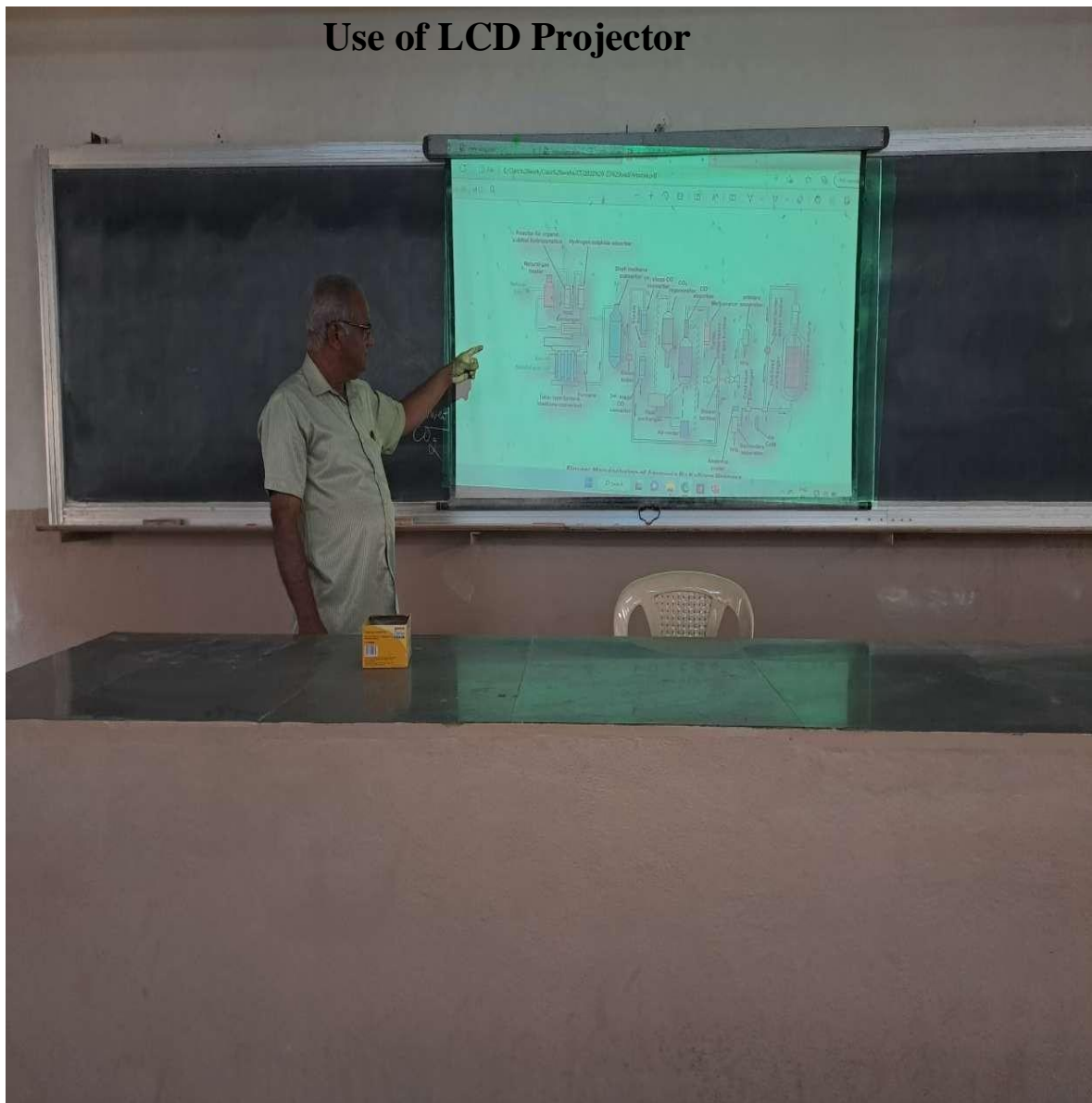


**SDM College of Engineering and Technology, Dharwad**  
**Department of Chemical Engineering**

**ICT Enabled Tools**

**Use of LCD Projector**





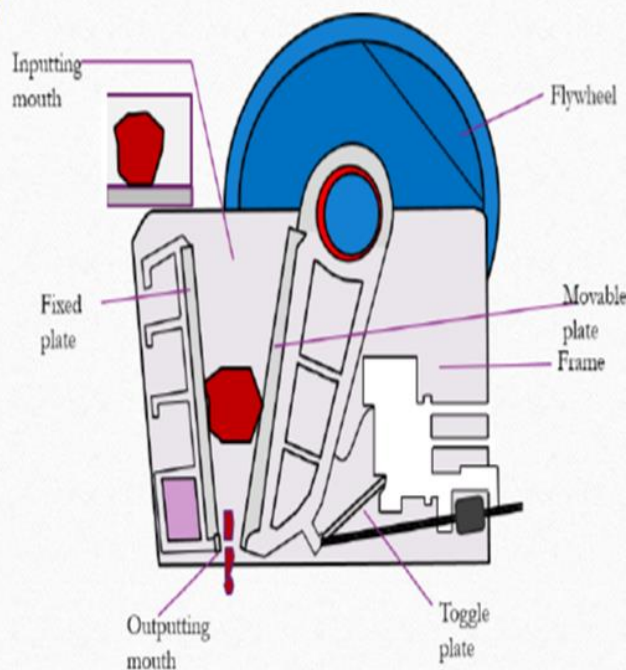
## Size reduction

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- Size reduction of solids for variety of purposes is a common requirement in many material processing industries
- Reduction mechanism involve deforming of solids until they break or tear
  - is generally accomplished by applying diverse forces
- Comminution is generic term used for size reduction
- Thus, objective of comminution is to produce small particles from larger particles
- Smaller particles are desired products because of their larger surface
- Energy efficiency of operation can be related to new surface formed by size reduction

# Jaw crushers

- Feed is admitted between two jaws, set to form a V open at top
- One jaw is stationary
- Other jaw driven by eccentric, reciprocates in a horizontal plane and crushes lumps caught between jaws
  - Maximum feed size 1500mm
  - Minimum product size 150mm
  - Capacity:  $<1 - >10^3$  ton/day
  - Suitable for metallic and non-metallic minerals



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## Online video Lecture links

<https://youtu.be/pJxCO-tj6Co> - Particulate Technology III Sem Chemical Engineering

<https://youtu.be/nxIAojO6yNM> - Biochemical Engineering VII Sem Chemical Engineering

## Google Classroom Links

<https://classroom.google.com/c/MTU0MTg4Mzg3OTUx>

<https://classroom.google.com/c/MTk0ODg5MDczMDcw>

<https://classroom.google.com/u/0/c/MTUyNDYzMzAzMjM0>

<https://classroom.google.com/c/MTMxNTUyMjE4NTEz?cjc=q2hy2eh>

<https://classroom.google.com/c/NDE2NjMzNTQzMjQ5?cjc=sb7xtez>