

## **5ME4-24: MACHINE DESIGN PRACTICE - I.**

- 1 Material selection and relevant BIS nomenclature - [https://youtu.be/xMOXTT6\\_-3c](https://youtu.be/xMOXTT6_-3c)
- 2 Selecting fit and assigning tolerances - <https://youtu.be/miKd8HOdZO8>
- 3 Examples of Production considerations- [https://youtu.be/zpqvpoZ\\_TO4](https://youtu.be/zpqvpoZ_TO4)
- 4 Problems on:
  - (a) Knuckle & Cotter joints- <https://youtu.be/ul22Yd0aEsg>
  - (b) Torque: Keyed joints and shaft couplings -<https://youtu.be/2ra-CapAQeg>
  - (c) Design of screw fastening - <https://youtu.be/cFdmnvIP-PI>
  - (d) Bending: Beams, Levers etc.- <https://youtu.be/iUhfstf10rk>
  - (e) Combined stresses: Shafts, brackets, eccentric loading- [https://youtu.be/v\\_8W3IJGT\\_o](https://youtu.be/v_8W3IJGT_o)