

**M.Tech. 1st Semester (ME) CBCS Scheme
Examination, November-2023**

MACHINE TOOL DESIGN

Paper- MTME21C4

Time allowed : 3 hours]

[Maximum marks : 100

Note: Question No. 1 is compulsory. Students have to attempt at least one question from each Unit.

1. Write short notes on following:

- (a) Hydraulic transmission
- (b) Dynamic stiffness
- (c) Bearing design
- (d) Manual Control System

Unit-I

- 2. Explain the layout of machine tools.
- 3. Explain the design of speed box.

Unit-II

- 4. Discuss about Finite element Method in detail.
- 5. Explain design procedure for the design of columns.

Unit-III

- 6. Explain the design of Guideways
- 7. Discuss the design of power screws.