

National Institute of Technology, Srinagar (J & K)

Assignment No-2

Subject: Design of Tribosystems (MSD-301)

Sep., 2020 to Dec., 2020

Unit: 1 Material Selection in the Design of Tribosystems

Date of Submission: 10-11-2020

1. Classify the various ferrous and non-ferrous metals for tribological applications.
2. Discuss the various properties of Super Alloys and compare it with ferrous and non-ferrous metals specifically mentioned which properties are advantageous for tribological applications.
3. Discuss the various properties of Composite materials and compare it with ferrous and non-ferrous metals specifically mentioned which properties are advantageous for tribological applications.
4. Discuss the various properties of Ceramics and compare it with ferrous and non-ferrous metals specifically mentioned which properties are advantageous for tribological applications.
5. List out some materials and their characteristics for the following application: (i) Thrust Bearing, (ii) Gears, (iii) Clutches and (iv) I C Engine.

*******END*******

Note: 1. *Students are advised to submit the assignment online by scanning the handwritten assignment on or before the date of submission at*

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2. *Please ensure that the Roll No along with name should be written in the front page of Assignment*