

Design of helical Gears (Assignment-2)

2007-08

1. Write a short note on lubrication of gears.
2. Advantages and disadvantages of helical gear over spur gear.

2008-09

1. What are the disadvantages of spur gears? How these difficulties are overcome in helical gears?

2009-2010

1. With the help of a sketch, explain how an axial thrust is generated in a helical gear. What is herringbone gear?

2010-11

1. Discuss the classification of helical gears. With a neat sketch explain the forces acting on a helical gear and explain the formative number of teeth.

2012-13

1. What is virtual or formative gear?

2015-16

1. What is herringbone helical gear?
2. Give the terminology of helical gears with suitable diagram. Also explain the forces on a helical gear tooth.
3. The dynamic load by Buckingham's equation. Effective factor of safety against bending failure.
4. Virtual no. of teeth in helical gear.

2016-17

1. What is a herringbone gear? Where they are used?
2. Explain the following terms used in helical gears :

(a) Helix angle; (b) normal pitch

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