Spur and Helical Gear Cutting

Type of Course: New
Course Snapshot: Core / UG / PG
Pre-requisites: B.E /B.Tech, M.E/M.Tech
Course Duration: 10 hours / 4 weeks
Industry Support: Gear manufacturing industries

COURSE OUTLINE:

These lectures would introduce the basic principles of spur and helical gear machining to the reader. First the concept of spur and helical gears would be introduced, followed by their uses, applications, nomenclature etc. A discussion on some commonly used machine elements would follow, which are required in subsequent lectures. Next, the concept of gear milling (including simple and differential indexing), gear shaping and gear hobbing for machining both straight spur and helical gears would be discussed. At every stage – there would be discussions on a number of numerical problems and multiple choice questions.

INSTRUCTOR:

Prof. Asimava Roy Choudhury
Department of Mechanical Engineering
IIT Kharagpur.

ABOUT INSTRUCTOR:


COURSE LAYOUT:

Week 1: Introduction to spur and helical Gears
Week 2: Milling of spur Gears
Week 3: Gear Shaping
Week 4: Gear Hobbing