

COURSE CODE: MADES2  
COURSE TITLE: Machine Design 2  
DEPARTMENT: Mechanical Engineering Department

TEXTBOOKS:

Shigley's mechanical engineering design, 10<sup>th</sup> edition (2015)  
Budynas, Richard Gordon/ Nisbett, J. Keith./ Shigley, Joseph Edward.  
New York, NY: McGraw-Hill Education

Introduction to machine design (2013)  
Bhandari, V. B.

READING LIST:

Fundamentals of machine component design  
Juvinall, Robert C. | Marshek, Kurt M.  
Hoboken, NJ : Wiley  
Chapter 19 Miscellaneous Machine Components  
Chapter 14 Rolling-Element Bearings  
Chapter 15 Spur Gears  
Chapter 16 Helical, Bevel, and Worm Gears  
Chapter 12 Springs  
Chapter 18 Clutches and Brakes

Machine elements in mechanical design  
Mott, Robert L.  
Boston : Pearson  
7 Belt Drives, Chain Drives, and Wire Rope  
14 Rolling Contact Bearings  
9 Spur Gear Design  
10 Helical Gears, Bevel Gears, and Wormgearing  
18 Springs  
22 Motion Control: Clutches and Brakes

REQUISITE EQUIPMENT/MATERIALS FOR THE COURSE: