University of Toronto, Department of Mechanical and Industrial Engineering  
Winter session 2016  
Graduate course MIE 1721S – Reliability  
Instructors: D. Banjevic  
Timing: Three hours/week, for 14 weeks, Thursdays 6-9 PM, room BA1240  
Office hours: Thursday 5-6 and by appointment, room: BA8139  
Course work: Two assignments (10%, first on February 4, due on February 11, second on March 24, due on March 31), mid-term test (35%, Feb. 25), final exam (55%, April 14).  
Web-site: On Portal  

COURSE OUTLINE


Tentative list of topics that will be covered from the Bentley’s book is given below. Additional topics and extensions will be considered. All exercises are recommended, except ones not covered. A moderate knowledge of probability and statistics is assumed as a requirement.

1. Principles of quality: 1.1, 1.2, 1.4 - self study
3. Reliability of systems: All.
5. Quality and reliability in design and manufacture: some sections will be covered, such as 5.5-5.7, depending on timing.
6. Reliability and availability in maintenance: all.
7. Protective systems for hazardous process: general principles will be covered, details will depend on timing

Some additional material will be available on web-site.

List of some useful books: