University of Toronto, Department of Mechanical and Industrial Engineering
Winter session 2021
Graduate course MIE 1721S – Reliability
Instructors: D. Banjevic, office BA8139
Timing: Three hours/week, for 13 weeks, Time, date, place TBA
Starts: January 4, ends: April 9
Office hours: TBA
Course work: Two assignments (10%), mid-term test (35%), final exam (55%). Chance for a project.
Web-site: On Portal

COURSE OUTLINE

(the textbook might change, if unavailable)

Tentative list of topics that will be covered is given below. Additional topics and extensions will be considered. A moderate knowledge of probability and statistics is assumed as a requirement.

1. Principles of quality
2. Principles of reliability
3. Reliability of systems
4. Failure rate data and models
5. Quality and reliability in design and manufacture
6. Reliability and availability in maintenance
7. Protective systems

Class slides will be posted. Some additional material will be available on the web-site.

List of some useful books: