

ME 627 Industrial Noise Control (3-0-0-6)

Principles of sound generation and propagation, sound attenuation, sound absorption, sources of industrial noise, effects of noise, noise measurement units and instruments, identification of source of noise, noise evaluation procedures, acoustical enclosures, design of reactive and absorptive mufflers, active noise control, designing for quieter machines and processes, case studies.

Textsbooks:

- [1] Leo L. Beranek, *Noise and Vibration Control*, McGraw-Hill, 1971
- [2] J. D. Irwin and E. R. Graf, *Industrial Noise and Vibration Control*, Prentice Hall, 1979
- [3] Cyril M Harris, *Handbook of Noise Control*, McGraw-Hill
- [4] Baxa, *Noise Control in Internal Combustion Engines*, Wiley, 1982
- [5] Harold Lord, Gatley and Eversen, *Noise Control for Engineers*, McGraw-Hill
- [6] R. H. Lyon, *Machinery Noise and Diagnostics*, Butterworths, 1987.