

SUBJECT NO-ME60103, SUBJECT NAME- MACHINERY FAULT DIAGNOSTICS AND SIGNAL
PROCESSING

LTP- 3-1-0,CRD- 4

SYLLABUS :-

Machinery Fault Diagnostics and Signal Processing Maintenance Principles, FMECA, Basics of Machine Vibration, Signal Analysis, Computer aided data acquisition, Time Domain Signal Analysis, Frequency Domain Signal Analysis, Fault Detection Transducers and Monitoring, Vibration Monitoring, Field Balancing of Rotors, Condition Monitoring of Rotating Machines, Noise Monitoring, Wear and Debris Analysis, Thermography, Electric Motor Current Signature Analysis, Ultrasonics in Condition Monitoring, NDT Techniques in Condition Monitoring, Case studies.