SUBJECT NO-CE41028, SUBJECT NAME- STRUCTURAL HEALTH MONITORING

LTP- 3-0-0,CRD- 3

SYLLABUS :-

Introduction to structural health monitoring. Non destructive techniques (NDT). Mechanical Strain and Displacement gages. Static . load testing. Accelerometers and vibration measurement. Vibration based techniques. Sensors: Fiber optic sensors, piezoelectric sensors, electrical resistance based sensors. Non-contact measurement. Numerical modeling, analysis of structures and inverse analysis. Comparison of experimental data and structural parameter updating.