

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
M.Tech I Year I Semester Regular & Supplementary Examinations February-2025
STRUCTURAL HEALTH MONITORING
(Structural Engineering)

Time: 3 Hours**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 Define Structural Health monitoring and various factors affecting the health of the structures. CO1 L1 12M

OR

- 2 Define inspection of a structure and list out various stages of inspection. CO1 L1 12M

UNIT-II

- 3 Define Structural Health monitoring and the concept of Structural Health monitoring. CO2 L2 12M

OR

- 4 Explain the concept of structural safety in alteration. CO2 L2 12M

UNIT-III

- 5 Define static field testing and types of static tests. CO3 L2 12M

OR

- 6 Describe the procedure of behavioral test and its importance. CO3 L2 12M

UNIT-IV

- 7 Define dynamic field testing and types of static tests. CO4 L2 12M

OR

- 8 Explain various dynamic loading allowances test. CO4 L2 12M

UNIT-V

- 9 Explain in detail any structured case study on structural health monitoring. CO5 L2 12M

OR

- 10 List out various advantages and disadvantages of piezoelectric materials. CO5 L1 12M

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