



## STRUCTURAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

|                      |                              |               |                        |
|----------------------|------------------------------|---------------|------------------------|
| Name of the faculty: | Mr. N VENKAT RAO             | Department:   | Structural Engineering |
| Regulation:          | IARE - R18                   | Batch:        | 2018-2020              |
| Course Name:         | STRUCTURAL HEALTH MONITORING | Course Code:  | BSTB07                 |
| Semester:            | I                            | Target Value: | 60% (1.8)              |

#### Attainment of COs:


|     | Course Outcome   | Direct Attainment | Indirect Attainment | Overall Attainment | Observation  |
|-----|--|-------------------|---------------------|--------------------|--------------|
| CO1 | Explain the factors effecting structural health for the maintenance of structures.                                 | 2.30              | 2.30                | 2.3                | Attained     |
| CO2 | Illustrate the concept of various methods applied for monitoring of structures for structural safety.              | 0.90              | 2.30                | 1.2                | Not Attained |
| CO3 | Interpret the importance of structural audit and assessment of health structures for the monitoring of structures. | 0.90              | 2.30                | 1.2                | Not Attained |
| CO4 | Recognize the importance of static tests and sensor systems for the safety of buildings.                           | 3.00              | 2.60                | 2.9                | Attained     |
| CO5 | Demonstrate health monitoring of structures by using Dynamic Response Method.                                      | 0.90              | 2.30                | 1.2                | Not Attained |
| CO6 | Outline piezo-electric materials and other smart materials for repair and rehabilitation of structures.            | 0.90              | 2.60                | 1.2                | Not Attained |

#### Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO2: Assigned case-study analyses of monitored bridges and buildings to help students interpret safety indicators and damage indices.  
CO3: Conducted classroom sessions explaining the objectives, scope, and procedures of structural audit and condition assessment.  
CO5: Provided numerical worksheets and assignments focused on interpreting dynamic response parameters for structural condition assessment.  
CO6: Arranged multimedia and simulation-based sessions to illustrate the performance of smart materials in adaptive and self-sensing structures.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Civil Engineering  
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