



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

STRUCTURAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|----------------------|--------------------------------|---------------|------------------------|
| Name of the faculty: | Mr. N VENKAT RAO | Department: | Structural Engineering |
| Regulation: | IARE - R18 | Batch: | 2018-2020 |
| Course Name: | ADVANCED DESIGN OF FOUNDATIONS | Course Code: | BSTB17 |
| Semester: | II | Target Value: | 60% (1.8) |

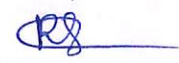
Attainment of COs:


| | Course Outcome | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|-----|--|-------------------|---------------------|--------------------|--------------|
| CO1 | Discover standardized method of soil exploration for classifying the soil core type and to make decision on type and depth of foundation. | 1.60 | 2.40 | 1.8 | Attained |
| CO2 | Evaluate the bearing capacity of the foundation soil for selecting the suitable type and depth foundation and to make surface from the settlement. | 1.60 | 2.30 | 1.7 | Not Attained |
| CO3 | Inspect the pile group capacity and settlement of the foundation soil under the action of external load for selecting the accurate type of the pile foundation. | 0.90 | 2.30 | 1.2 | Not Attained |
| CO4 | Examine the theories and recommended provisions to avoid underground structures free from the collapse and tilting. | 0.90 | 2.40 | 1.2 | Not Attained |
| CO5 | Select most accurate type and method for laying the sheeting and bracing related to shallow and deep cuts to make sure the structures safe from the uplift pressure. | 0.90 | 2.30 | 1.2 | Not Attained |
| CO6 | Discover the soil-structure interaction under the shock load and vibration loads to ensure structures free from the failures due to the action of sudden and earthquake loads. | 0.90 | 2.30 | 1.2 | Not Attained |

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

CO2: Organized guided problem-solving sessions where students calculated allowable bearing pressures and selected suitable foundation types.
CO3: Delivered a seminar on "Pile Foundation Design and Performance Assessment" with real-world examples from bridges and high-rise structures.
CO4: Conducted classroom demonstrations explaining the theoretical principles of stability and structural behavior of underground structures.
CO5: Provided numerical worksheets and assignments focused on calculating bending, shear, and deflection in sheeting and bracing members.
CO6: Facilitated case-study analyses of earthquake-affected structures to understand performance, failures, and design improvements.


Course Coordinator


Mentor


Head of the Department
Civil Engineering
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